



ELECTRONICALLY FILED WITH RCA

April 15, 2026

Regulatory Commission of Alaska
701 W. 8th Avenue, Suite 300
Anchorage, AK 99501

Subject: Tariff Advice No. 591-8 Annual Update to the G&T Loss Factor

Commissioners:

The tariff filing described below is hereby transmitted to you for filing in compliance with the Alaska Public Utilities Commission Act and Sections 3 AAC 48.200 – 3 AAC 48.470 of the Alaska Administrative Code. The purpose of this filing is to update Chugach Electric Association, Inc.’s (Chugach) generation and transmission (G&T) loss factor based on calendar-year 2025 operating results. The following tariff sheets are submitted for approval:

TARIFF SHEET NUMBER		CANCELS SHEET NUMBER		SCHEDULE OR
<u>ORIGINAL</u>	<u>REVISED</u>	<u>ORIGINAL</u>	<u>REVISED</u>	<u>RULE NUMBER</u>
103.4	23 rd Revision	103.4	22 nd Revision	Calculation of
103.5	23 rd Revision	103.5	22 nd Revision	G&T Losses

This filing is not for a new service, will not result in the termination of an existing service, conflict with any other schedule or rate contained in Chugach’s operating tariff, or in any other way adversely impact customers or the public. Chugach provides electric service to approximately 90,000 retail members with 113,000 retail metered locations and wholesale customer City of Seward d/b/a Seward Electric System (Seward). Chugach is projecting annual revenues of approximately \$394.3 million for calendar-year 2026.

Summary of Results

The annual update of the G&T loss factor is determined by calculating the percentage difference between the energy generated and purchased, compared to the energy delivered at transmission-level voltages. These percentages are used for the allocation of system costs between G&T and Distribution functions in Chugach’s cost of service studies, cost of power rate adjustment processes, and the determination of losses applied to transmission wheeling transactions.

The updated G&T loss factor proposed in this filing is 2.2 percent as measured at generation. Consistent with prior year calculations, losses from Bradley Lake to Quartz Creek are not included in the loss factor calculation. If approved, the updated loss factor will decrease Seward’s G&T cost responsibility by approximately \$9,940 and increase the G&T cost responsibility to Chugach’s retail members by an equivalent amount. This shift in cost responsibility is due to the decrease in

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the ratio of Seward sales to Chugach's overall system sales. In this update, there is no rate impact on third party transmission customers because Chugach is not changing its transmission wheeling rates.

Compliance with U-99-106(12)

The G&T loss factor was calculated in accordance with the methodology contained in the stipulation between Chugach, Homer Electric Association, Inc. (HEA) and Matanuska Electric Association, Inc. (MEA) and accepted by the Commission in Order U-99-106(12). Pursuant to this order, preliminary 2025 test year loss factor calculations and supporting work papers were provided to HEA, MEA and the Office of the Attorney General, Regulatory Affairs and Public Advocacy Section for review and comment. Preliminary calculations and work papers were also provided to Golden Valley Electric Association, Inc. and Seward.

A meeting was scheduled and held on February 27, 2026 to review the calculations and discuss preliminary results. Chugach provided invites to all Railbelt utilities, none of which attended the meeting. Chugach is not aware of any outstanding issues associated with this year's update.

Description of Tariff Sheets Changes and Supporting Attachments

Tariff Sheet No. 103.4: Updated to reflect Chugach's system activity for the 2025 Test Year.

Tariff Sheet No. 103.5: Updated to include Chugach's 2025 energy flows and calculated losses. The proposed Chugach G&T loss factors are measured at both generation and delivery.

Attachment I: Provides the calculations for Chugach's electrical system monthly G&T loss factors at Delivery and Generation. Loss calculations in this attachment are based on specific boundary points where energy enters or leaves the G&T system and are adjusted for house power and transformer losses.

Attachment II: Provides calculated transformer losses for the transformers that do not have a high voltage side measurement point. In accordance with the Black and Veatch G&T Line Loss Study, for the metering points where only low voltage side measurements are available, the calculated transformer losses are removed from the G&T loss calculation and added into the distribution loss calculation. Four of the North District transformers provided on this attachment are still undergoing IEEE C57 standard testing and the results are expected to be available in a future update.

Please contact Randall Chicola, Economic Analyst, Regulatory Affairs at (907) 762-4853 or Randall_Chicola@chugachelectric.com if additional information is needed.

Sincerely,

CHUGACH ELECTRIC ASSOCIATION, INC.



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Attachments

cc: Kat Sorenson, City of Seward (electronic)
Daniel Heckman, Golden Valley Electric Association, Inc. (electronic)
Tyler Clark, Matanuska Electric Association, Inc. (electronic)
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RCA NO.: 823rd RevisionSheet No. 103.4

Canceling

22nd RevisionSheet No. 103.4

Chugach Electric Association, Inc.

**CALCULATION OF CHUGACH G&T LOSSES
2025 Test Year**

Description	Q1-25	Q2-25	Q3-25	Q4-25	Total
<u>Energy Entering System</u>					
Beluga Power Plant	238.1	957.6	35.2	182.0	1,412.9
Fire Island Wind (IGT Bkr 532)	13,697.6	13,163.7	8,118.1	14,156.2	49,135.6
Southcentral Power Project	332,496.7	272,602.2	177,714.7	313,110.4	1,095,923.9
Plant 1	7,378.2	160.9	1,808.4	2,952.6	12,300.0
Plant 2	231.8	91.8	106.0	406.3	835.8
Plant 2A	257,618.6	199,955.1	234,613.2	226,090.5	918,277.4
Quartz Creek Substation	43,105.2	96,180.8	104,971.4	125,291.3	369,548.7
Teeland Substation	8,933.5	9,619.1	10,146.2	18,973.2	47,671.9
Plant 2 230 Yard	0.0	0.0	14,905.1	0.0	14,905.1
Eklutna Substation	416.8	0.0	0.0	43.1	459.9
International Substation	28.0	40.1	113.9	161.0	343.1
Cooper Lake Power Plant	6,604.4	16,484.6	18,451.9	12,772.5	54,313.3
Eklutna Hydro Electric Power Plant	28,591.7	36,675.7	57,471.8	35,565.5	158,304.7
Total Energy Entering System	699,340.4	645,931.3	628,455.8	749,704.7	2,723,432.2
<u>Energy Leaving System</u>					
Quartz Creek Substation	0.0	0.0	0.0	0.0	0.0
Daves Creek Substation	13,874.7	13,701.4	14,004.3	14,026.0	55,606.4
Eklutna Substation	28,497.4	36,112.5	56,812.6	35,781.0	157,203.5
Teeland Substation	93,147.0	85,633.5	56,691.1	109,597.5	345,069.0
Plant 2 230 Yard	30,221.3	36,943.9	22,841.4	37,159.2	127,165.8
International Substation	946.6	840.5	856.4	1,089.6	3,733.1
Power Plant Station Service Totals	20,695.2	16,607.5	15,827.5	15,008.9	68,139.0
South - Distribution Substation Deliveries	282,216.4	242,491.9	243,355.8	293,888.9	1,061,952.9
North - Distribution Substation Deliveries	222,152.4	202,536.8	206,815.6	226,132.0	857,636.8
Total Energy Leaving System	691,750.9	634,868.0	617,204.7	732,682.9	2,676,506.5
Gross Energy Losses	7,589.5	11,063.4	11,251.1	17,021.7	46,925.7
Less Transformer Losses	1,602.7	1,602.7	1,602.7	1,602.7	6,410.9
Net G&T Losses	5,986.8	9,460.6	9,648.4	15,419.0	40,514.8

Tariff Advice No. 591-8

Effective:

Issued by:

Chugach Electric Association, Inc.

P.O. Box 196300 Anchorage, Alaska 99519-6300

RCA NO.: 823rd RevisionSheet No. 103.5

Canceling

22nd RevisionSheet No. 103.5

Chugach Electric Association, Inc.

CALCULATION OF CHUGACH G&T LOSSES
2025 Test Year

Description	Q1-25	Q2-25	Q3-25	Q4-25	Total
Chugach Retail Distribution Losses					
Retail Receipts at Transmission Substation	504,368.8	445,028.6	450,171.4	520,020.9	1,919,589.7
Less: Chugach House Power	1,834.8	1,427.3	1,408.7	1,849.0	6,519.9
Net Receipts	502,534.0	443,601.3	448,762.7	518,171.8	1,913,069.8
Retail Sales at Delivery	491,253.6	429,259.2	430,165.4	490,337.1	1,841,015.2
Losses	11,280.4	14,342.1	18,597.3	27,834.7	72,054.5
Add: 1/2 House Power	917.4	713.7	704.4	924.5	3,260.0
Adj. Retail Dist. Losses	12,197.8	15,055.8	19,301.7	28,759.3	75,314.5
At Delivery	2.483%	3.507%	4.487%	5.865%	4.091%
At Transmission Substation	2.427%	3.394%	4.301%	5.550%	3.937%
Adjustment of G&T Losses for House Power					
G&T Deliveries	518,341.4	458,841.1	464,264.3	534,143.0	1,975,589.8
Net G&T Losses	5,986.8	9,460.6	9,648.4	15,419.0	40,514.8
Add: 1/2 House Power	917.4	713.7	704.4	924.5	3,260.0
Adjusted G&T Losses	6,904.2	10,174.3	10,352.8	16,343.5	43,774.8
At Delivery	1.332%	2.217%	2.230%	3.060%	2.216% I
At Generation	1.314%	2.169%	2.181%	2.969%	2.168% I

¹ G&T loss factor effective for the allocation of actual costs beginning January 1, 2026.

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P.O. Box 196300 Anchorage, Alaska 99519-6300

Attachment I

Chugach Electric Association, Inc.
Monthly G&T Line Loss Calculation; U-99-106
In Accordance with Section 7, April 12, 2002
Tariff Advice No. 591-8

Values used in calculation not rounded; data formatted to show the nearest tenth of a MWh.

Measurement Point	Source ¹	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25	Dec-25	Total 2025
<u>Energy Entering System</u>														
Beluga Power Plant														
Beluga 13.8 BKR 126	S	60.6	0.0	0.0	56.5	58.4	0.0	0.0	0.0	0.0	38.0	0.0	0.0	213.5
Beluga 13.8 BKR 226	S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.2	0.0	0.0	0.0	35.2
Beluga 13.8 BKR 326	S	0.0	0.0	30.9	0.0	381.4	0.0	0.0	0.0	0.0	68.0	0.0	0.0	480.3
Beluga 13.8 BKR 526	S	4.0	0.0	142.6	0.0	0.0	461.3	0.0	0.0	0.0	76.0	0.0	0.0	683.9
Beluga 13.8 BKR 626	S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Beluga 13.8 BKR 726	S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Beluga 13.8 BKR 826	S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Beluga Power Plant		64.6	0.0	173.6	56.5	439.8	461.3	0.0	0.0	35.2	182.0	0.0	0.0	1,412.9
Fire Island Wind														
Fire Island Wind (FISS Bkr 532)	M	6,786.4	2,898.8	4,012.4	4,406.4	5,176.2	3,581.1	2,558.2	2,862.8	2,697.1	3,781.9	3,695.7	6,678.6	49,135.6
Total Fire Island Wind		6,786.4	2,898.8	4,012.4	4,406.4	5,176.2	3,581.1	2,558.2	2,862.8	2,697.1	3,781.9	3,695.7	6,678.6	49,135.6
SPP														
Unit No. 1 / 10	S	27,080.9	26,294.4	22,721.8	20,237.3	22,503.4	19,094.4	18,943.3	4,204.0	16,122.9	20,798.7	19,998.0	27,633.1	245,632.2
Unit No. 2 / 11	S	29,851.1	29,743.0	22,875.1	22,812.8	26,560.7	20,148.9	17,775.3	7,136.0	25,483.6	28,502.4	32,001.0	34,582.8	297,472.8
Unit No. 3 / 12	S	30,717.1	28,555.6	24,786.6	23,187.3	29,939.3	27,996.2	27,198.0	4,182.0	11,614.5	25,890.4	31,809.0	34,032.2	299,908.1
Unit No. 4 / 13	S	29,815.9	29,545.5	30,509.7	23,995.4	19,524.1	16,602.3	20,548.2	4,509.0	19,997.9	18,925.6	9,677.0	29,260.2	252,910.8
Total SPP		117,464.9	114,138.6	100,893.2	90,232.8	98,527.5	83,841.9	84,464.8	20,031.0	73,218.9	94,117.1	93,485.0	125,508.3	1,095,923.9
Plant 1														
Unit No. 3	S	7,311.5	0.0	25.9	0.0	160.9	0.0	196.7	1,554.0	0.0	135.6	2,766.0	0.0	12,150.5
Unit No. 4	S	0.0	0.0	40.9	0.0	0.0	0.0	0.0	0.0	57.7	0.0	0.0	51.0	149.6
Total Plant 1		7,311.5	0.0	66.7	0.0	160.9	0.0	196.7	1,554.0	57.7	135.6	2,766.0	51.0	12,300.0
Plant 2														
Unit No. 7	S	0.0	113.0	0.0	20.9	0.0	0.0	0.0	0.0	21.4	115.3	211.0	0.0	481.5
Unit No. 8	S	118.8	0.0	0.0	0.0	0.0	70.9	0.0	0.0	84.6	0.0	80.0	0.0	354.3
Total Plant 2		118.8	113.0	0.0	20.9	0.0	70.9	0.0	0.0	106.0	115.3	291.0	0.0	835.8

Chugach Electric Association, Inc.
Monthly G&T Line Loss Calculation; U-99-106
In Accordance with Section 7, April 12, 2002
Tariff Advice No. 591-8

Values used in calculation not rounded; data formatted to show the nearest tenth of a MWh.

Measurement Point	Source ¹	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25	Dec-25	Total 2025
Plant 2A														
Unit No. 9	S	34,735.3	30,874.8	34,293.2	29,154.4	32,061.3	29,582.2	28,585.8	31,952.0	30,571.0	21,924.4	28,192.0	34,344.2	366,270.4
Unit No. 10	S	33,595.8	30,411.3	33,744.0	27,607.3	15,983.3	21,926.8	27,290.8	31,390.0	27,456.2	23,513.5	32,099.0	33,393.7	338,411.5
Unit No. 11 (Steam)	S	20,688.7	18,594.8	20,680.8	17,093.0	11,194.0	15,353.0	18,151.3	20,763.0	18,453.1	14,091.7	18,143.0	20,389.2	213,595.5
Total Plant 2A		89,019.8	79,880.8	88,718.0	73,854.6	59,238.5	66,862.0	74,027.9	84,105.0	76,480.3	59,529.5	78,434.0	88,127.0	918,277.4
Cooper Lake Power Plant														
Chugach CLPP	S	2,224.8	1,584.1	2,795.5	5,878.1	5,255.1	5,351.3	6,637.7	6,746.0	5,068.2	5,617.5	5,148.0	2,007.0	54,313.3
Total Cooper Lake Power Plant		2,224.8	1,584.1	2,795.5	5,878.1	5,255.1	5,351.3	6,637.7	6,746.0	5,068.2	5,617.5	5,148.0	2,007.0	54,313.3
Eklutna Hydro Electric Power Plant														
Eklutna Hydro	S	9,603.6	11,080.4	7,907.7	12,305.6	9,556.0	14,814.0	20,917.5	23,694.8	12,859.5	11,355.8	12,700.8	11,509.0	158,304.7
Total Eklutna Hydro Electric Power Plant		9,603.6	11,080.4	7,907.7	12,305.6	9,556.0	14,814.0	20,917.5	23,694.8	12,859.5	11,355.8	12,700.8	11,509.0	158,304.7
Total Energy Entering System		248,517.1	213,176.3	237,647.1	219,705.7	218,358.7	207,867.0	216,127.1	198,460.5	213,868.2	221,208.4	248,801.7	279,694.6	2,723,432.2
<u>Energy Entering or Leaving System</u>														
International Substation														
INSS BKR 532 (MSESS)	S	33.3	30.0	35.7	36.4	37.1	35.4	36.0	36.6	25.8	37.7	35.9	36.6	416.5
INSS BKR 632 (IBSS)	S	317.2	253.0	165.7	211.4	274.5	130.4	220.4	264.9	272.6	294.7	327.0	357.8	3,089.7
INSS BKR 1432 (IBSS)	S	(28.0)	8.7	102.9	35.2	(40.1)	80.1	(17.6)	(49.4)	(46.9)	(45.7)	(60.6)	(54.7)	(116.1)
Total International Substation Entering the G&T System		28.0	0.0	0.0	0.0	40.1	0.0	17.6	49.4	46.9	45.7	60.6	54.7	343.1
Total International Substation Leaving the G&T System		350.5	291.7	304.4	283.0	311.6	245.9	256.5	301.5	298.4	332.4	362.8	394.4	3,733.1
Quartz Creek Substation														
Soldotna 115 SldQtzLn	S	(8,968.9)	(3,460.4)	(30,675.8)	(29,683.8)	(35,044.2)	(31,452.7)	(27,140.9)	(38,567.8)	(39,262.7)	(40,202.7)	(43,468.5)	(41,620.2)	(369,548.7)
Total Quartz Creek Substation Entering the G&T System		8,968.9	3,460.4	30,675.8	29,683.8	35,044.2	31,452.7	27,140.9	38,567.8	39,262.7	40,202.7	43,468.5	41,620.2	369,548.7
Total Quartz Creek Substation Leaving the G&T System		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Plant 2 Yard														
Plant 2 Bus M EklNorth MW (MEA Tie)	S	7,952.7	5,161.5	17,107.2	12,236.2	12,758.3	11,949.4	9,375.0	(14,905.1)	13,466.4	7,325.8	11,634.6	18,198.8	112,260.7
Total Plant 2 Yard Entering the G&T System		0.0	0.0	0.0	0.0	0.0	0.0	0.0	14,905.1	0.0	0.0	0.0	0.0	14,905.1
Total Plant 2 Yard Leaving the G&T System		7,952.7	5,161.5	17,107.2	12,236.2	12,758.3	11,949.4	9,375.0	0.0	13,466.4	7,325.8	11,634.6	18,198.8	127,165.8
Eklutna Substation														
Eklutna BKR 362 MW	S	1,421.6	1,751.0	8,194.7	1,781.9	1,360.1	1,275.1	4,504.2	9,510.3	9,680.5	10,542.1	11,690.8	11,755.9	73,468.3
Eklutna BKR 462 MW	S	7,997.1	9,133.0	(416.8)	10,342.8	8,015.4	13,337.2	16,178.2	13,923.4	3,015.9	956.7	835.5	(43.1)	83,275.3
Total Eklutna Substation Entering the G&T System		0.0	0.0	416.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43.1	459.9
Total Eklutna Substation Leaving the G&T System		9,418.7	10,884.0	8,194.7	12,124.7	9,375.5	14,612.3	20,682.4	23,433.8	12,696.4	11,498.7	12,526.3	11,755.9	157,203.5

Chugach Electric Association, Inc.
Monthly G&T Line Loss Calculation; U-99-106
In Accordance with Section 7, April 12, 2002
Tariff Advice No. 591-8

Values used in calculation not rounded; data formatted to show the nearest tenth of a MWh.

Measurement Point	Source ¹	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25	Dec-25	Total 2025
Teeland Substation														
Teeland 115 kV T1	S	24,259.0	18,135.2	25,602.0	20,501.4	22,345.7	18,388.4	16,284.9	2,602.3	18,573.7	19,958.2	24,193.7	28,246.9	239,091.4
Teeland 115 1452 (T3)	S	6,925.7	20.3	1,987.5	3,267.1	4,920.3	1,431.7	165.9	5,944.7	4,035.7	6,125.4	8,752.0	4,095.7	47,671.9
Teeland 138 BKR 538 (T2)	S	13,068.2	4,092.8	7,989.8	8,263.3	10,452.4	5,682.2	3,831.2	6,836.3	8,562.7	11,129.9	15,032.7	11,036.0	105,977.6
Total Teeland Substation Entering the G&T System		6,925.7	20.3	1,987.5	3,267.1	4,920.3	1,431.7	165.9	5,944.7	4,035.7	6,125.4	8,752.0	4,095.7	47,671.9
Total Teeland Substation Leaving the G&T System		37,327.1	22,228.0	33,591.8	28,764.8	32,798.2	24,070.6	20,116.1	9,438.6	27,136.4	31,088.1	39,226.4	39,282.9	345,069.0
<u>Energy Leaving System</u>														
Daves Creek Substation														
Daves Ck 115 BKR 952	S	4,737.3	4,493.3	4,644.2	4,288.8	4,683.4	4,729.3	4,876.0	4,909.6	4,218.6	4,131.5	4,648.0	5,246.5	55,606.4
Total Daves Creek Substation		4,737.3	4,493.3	4,644.2	4,288.8	4,683.4	4,729.3	4,876.0	4,909.6	4,218.6	4,131.5	4,648.0	5,246.5	55,606.4
Power Plant Station Service - Includes Generation Step-up (GSU) transformers losses														
Beluga Station Service	O	511.9	456.4	433.8	390.6	350.6	282.4	250.8	253.0	300.7	431.8	527.0	661.9	4,850.8
CLPP Station Service	O	225.1	187.8	136.2	144.8	141.3	106.5	105.7	132.0	126.7	138.5	148.0	198.8	1,791.2
Eklutna Station Service	O	92.0	95.3	85.7	103.6	101.1	124.0	164.8	185.4	112.8	104.5	118.3	119.7	1,407.2
Plant 1	O	591.3	122.4	119.1	115.3	122.3	94.4	103.9	178.0	95.5	114.8	252.0	140.1	2,049.0
Plant 2	O	189.3	272.4	286.8	262.7	232.6	187.0	238.3	218.9	216.6	253.8	291.8	313.1	2,963.3
Plant 2A	O	2,991.0	2,665.0	2,834.8	2,471.6	2,037.7	2,243.6	2,627.6	2,929.0	2,616.2	1,926.9	2,716.0	3,542.4	31,602.0
SPP Station Service	O	2,998.8	2,810.8	2,589.3	2,330.1	2,518.6	2,246.7	2,414.8	585.2	1,971.5	(2,425.7)	2,367.8	3,067.4	23,475.4
Total Station Service		7,599.4	6,610.2	6,485.6	5,818.6	5,504.2	5,284.7	5,905.9	4,481.5	5,440.0	544.7	6,420.9	8,043.4	68,139.0
South District - Distribution Substation Deliveries														
BEL_PH_1022	S	2,314.7	2,089.2	2,269.8	518.0	2,225.0	2,193.2	2,296.7	2,295.8	2,353.5	2,434.3	2,470.7	2,601.2	26,062.0
BEL_TY_6126	S	518.8	500.6	485.2	2,109.1	459.0	349.0	322.9	338.9	377.1	462.6	498.6	596.7	7,018.5
DC_352_452	S	545.9	545.9	562.1	560.7	587.3	627.7	629.5	611.5	540.0	477.1	436.4	501.0	6,625.1
GIRDWD_322	S	1,688.5	1,283.8	1,302.0	1,115.1	890.6	889.7	928.4	928.3	881.7	933.6	1,490.2	2,339.1	14,671.1
GIRDWD_422	S	1,223.4	1,069.0	1,035.2	882.4	757.8	715.3	730.5	734.6	739.2	853.1	1,065.4	1,465.4	11,271.2
HANE_T1	S	2,254.0	2,062.7	2,084.7	1,927.0	1,875.7	1,748.6	1,896.9	1,984.3	1,949.4	2,054.2	2,222.3	2,514.5	24,574.3
HOPE_322B	S	182.1	164.9	166.6	148.7	152.2	151.1	149.8	151.0	148.5	152.6	168.7	216.9	1,953.1
INSS_1232	S	7,939.5	7,043.8	577.3	6,412.1	6,579.0	6,393.1	6,993.0	6,859.1	6,853.9	7,447.3	8,269.8	9,836.6	81,204.4

Chugach Electric Association, Inc.
Monthly G&T Line Loss Calculation; U-99-106
In Accordance with Section 7, April 12, 2002
Tariff Advice No. 591-8

Values used in calculation not rounded; data formatted to show the nearest tenth of a MWh.

Measurement Point	Source ¹	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25	Dec-25	Total 2025
INSS_1332	S	5,888.5	5,249.0	5,105.9	4,605.3	4,925.6	3,398.0	4,490.2	5,350.7	5,267.7	5,803.3	6,563.3	6,549.7	63,197.3
INSS_1532	S	5,354.2	4,829.5	6,763.9	4,535.6	5,046.3	4,470.4	4,219.4	4,649.3	4,418.6	4,723.9	5,015.0	5,045.5	59,071.6
INSS_332	S	295.2	269.7	279.3	263.9	256.9	235.5	257.3	427.6	335.7	393.4	436.1	525.6	3,976.2
INSS_732	S	8,094.8	6,748.0	3,293.1	4,248.5	2,748.8	8,216.9	2,166.5	(14.9)	(14.4)	(14.8)	(14.2)	(13.5)	35,444.8
INSS_832	S	6,761.1	6,163.3	5,645.3	8,026.7	5,149.2	7,277.8	8,141.4	8,620.1	8,169.7	9,019.9	9,611.7	10,458.6	93,044.7
INDIAN_212	S	234.1	215.6	213.4	204.9	202.8	191.5	194.9	195.2	198.6	220.3	232.5	278.4	2,582.0
PASS_162	S	1,470.1	1,286.3	1,444.8	1,292.8	1,179.2	1,094.1	1,348.5	1,173.7	1,155.2	1,273.7	1,358.6	1,607.4	15,684.4
PASS_262	S	2,844.2	2,555.4	2,857.5	2,730.2	2,803.7	2,860.0	3,283.2	2,977.2	2,762.2	2,800.5	2,733.9	3,154.4	34,362.2
PORTAGE_422	S	784.1	716.1	754.2	692.0	647.6	599.4	660.3	638.3	582.2	591.1	714.1	830.3	8,209.6
RR_XFMR_T1	S	15,953.1	14,298.5	17,212.1	13,088.0	12,757.9	10,089.2	12,522.1	12,842.8	12,769.4	13,880.8	15,304.1	17,770.6	168,488.6
RR_XFMR_T2	S	16,101.0	14,430.9	17,346.5	13,250.4	12,881.5	10,236.9	12,696.0	13,012.6	12,925.2	14,055.4	15,472.4	17,898.3	170,307.0
SUMMIT LK	M	39.0	35.0	34.0	32.0	86.0	131.0	135.0	131.0	69.0	29.0	31.0	36.0	788.0
UVSS_1132	S	9,650.8	9,571.6	9,364.9	8,657.0	8,364.1	7,910.4	8,240.5	8,416.9	8,329.6	9,025.8	10,015.2	12,524.6	110,071.2
UVSS_1232	S	6,004.9	6,045.7	8,485.5	5,414.8	7,625.1	4,828.0	5,716.3	6,578.5	6,575.2	7,287.5	8,173.3	9,729.8	82,464.6
UVSS_1332	S	4,671.4	3,427.6	3,561.4	3,119.8	3,015.3	2,875.9	3,023.1	3,034.1	3,027.4	3,290.4	3,677.3	4,333.5	41,057.0
UVSS_1536	S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	(2.5)	0.0	0.0	(2.5)
FIW Station Service	S	(11.6)	(12.8)	(19.1)	(15.6)	(14.8)	(12.1)	(11.1)	(12.2)	(14.3)	(14.7)	(12.7)	(22.5)	(173.5)
Total South District - Distribution Substation		100,801.7	90,589.0	90,825.6	83,819.2	81,201.8	77,470.9	81,031.2	81,924.4	80,400.2	87,177.6	95,933.4	110,777.8	1,061,952.9
North District - Distribution Substation Deliveries														
Sub 6 12.47 Bus MW	S	5,751.9	5,184.3	5,223.4	4,766.1	4,840.7	4,683.1	4,883.6	4,999.8	4,896.3	5,329.1	5,703.3	6,553.5	62,815.1
Sub 6 34.5 Bus MW	S	4,096.7	3,760.8	3,951.2	3,790.5	3,614.4	4,037.6	4,403.8	4,185.1	3,791.3	3,927.1	3,890.3	4,177.3	47,625.9
Sub 7 12.47 Bus Station Megawatts MW	S	4,441.1	4,057.6	4,026.1	3,800.6	3,251.9	2,847.8	3,570.8	3,533.3	3,409.5	3,702.8	3,902.8	4,460.6	45,005.0
Sub 8 Main Bkr 14 MW	S	5,661.0	5,241.1	5,639.2	5,453.1	5,603.2	5,864.0	6,470.5	6,331.7	5,840.5	5,749.7	5,625.6	5,810.4	69,290.0
Sub 8 Main Bkr 4 Watts	S	4,017.6	3,630.0	3,631.9	4,025.1	3,557.6	2,409.4	2,541.1	3,098.5	3,583.3	3,748.2	3,987.3	4,488.5	42,718.6
Sub 10 12.47 Bus Station MegaWatts MW	S	3,958.2	3,567.7	3,552.7	3,348.5	3,203.1	3,006.5	3,147.1	3,274.2	3,042.8	3,293.0	3,635.3	4,196.4	41,225.3
Sub 12 SouthBus MW	S	12,543.4	13,457.6	11,925.0	10,028.3	7,631.2	11,238.5	13,636.9	19,199.8	12,172.0	10,328.5	12,094.1	13,091.2	147,346.6
Sub 12 NorthBus MW	S	(25,561.0)	(25,454.6)	(24,448.3)	(21,394.7)	(16,957.2)	(18,295.1)	(20,379.5)	(25,443.0)	(18,827.5)	(17,650.3)	(19,842.8)	(23,099.0)	(257,353.0)
Sub 12 Total Deliveries MW		13,017.6	11,997.0	12,523.3	11,366.5	9,325.9	7,056.6	6,742.6	6,243.2	6,655.5	7,321.8	7,748.7	10,007.8	110,006.4
Sub 14 115 Sub10Bus Watts	S	7,987.1	8,723.3	12,318.9	11,767.1	10,800.1	12,069.8	12,761.2	16,064.8	13,968.2	13,946.6	14,146.1	15,796.2	150,349.4
Sub 14 115 Anch Bus Watts	S	4,545.6	4,142.5	(2,190.5)	(3,801.8)	(6,218.0)	(4,571.7)	(3,100.7)	(230.9)	(6,211.3)	(7,580.5)	(5,509.7)	(6,066.5)	(36,793.5)
Sub 14 115 Plt2 Bus Watts	S	(19,114.5)	(18,933.9)	(16,296.0)	(13,606.4)	(10,142.9)	(13,151.9)	(15,842.7)	(21,335.4)	(13,457.9)	(11,581.7)	(14,027.8)	(15,710.5)	(183,201.6)
Sub 14 Total Deliveries MW		6,581.8	6,068.2	6,167.5	5,641.0	5,560.8	5,653.8	6,182.3	5,501.5	5,701.1	5,215.6	5,391.4	5,980.8	69,645.7

Chugach Electric Association, Inc.
Monthly G&T Line Loss Calculation; U-99-106
In Accordance with Section 7, April 12, 2002
Tariff Advice No. 591-8

Values used in calculation not rounded; data formatted to show the nearest tenth of a MWh.

Measurement Point	Source ¹	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25	Dec-25	Total 2025
Sub 15 12.47 Bus Station MWatts MW	S	8,588.8	7,876.7	8,110.9	7,879.1	7,640.0	7,396.0	7,811.1	8,092.6	6,904.0	7,615.5	8,109.9	9,570.1	95,594.8
Sub 16 12.47 Bus MW	S	3,978.2	3,555.7	3,223.9	1,579.6	3,321.3	5,357.3	5,845.4	5,389.3	4,610.5	4,714.3	4,783.2	5,270.9	51,629.5
Sub 22 115 Sub 7 Bus Watts	S	(106.4)	2,660.3	907.9	1,989.1	6,213.9	1,921.4	1,332.2	(8,795.1)	21.0	3,793.1	965.5	3,934.1	14,837.0
Sub 22 115 Sub 16 Bus Watts	S	(1,097.0)	(362.2)	(6,539.4)	(7,255.2)	(4,024.3)	(5,320.0)	(5,110.7)	(12,040.8)	(9,245.9)	(7,316.8)	(8,259.7)	(4,530.9)	(71,103.0)
Sub 22 115 ITSS Bus Watts	S	(4,312.3)	(7,364.6)	(317.5)	(778.7)	(7,300.6)	(1,169.6)	(844.7)	16,350.6	5,222.4	(559.5)	3,154.4	(3,852.8)	(1,772.9)
Sub 22 Total Deliveries MW		5,515.7	5,066.5	5,949.0	6,044.8	5,111.0	4,568.3	4,623.2	4,485.3	4,002.6	4,083.2	4,139.8	4,449.6	58,038.9
Sub 20 12.47 Bus Station MegaWatts MW	S	3,366.5	3,065.4	3,197.1	3,123.9	3,168.1	2,737.6	2,936.4	3,062.1	3,057.3	3,796.4	3,959.9	4,446.7	39,917.4
Plant 1 Bkr 830 MW	S	4,134.2	3,951.9	4,001.9	3,610.3	3,572.0	3,629.2	3,964.2	3,941.1	3,624.9	3,765.6	3,889.7	4,542.2	46,627.2
Plant 1 Bkr 930 MW	S	1,780.3	1,636.6	1,731.5	1,779.6	1,952.0	1,883.2	2,044.8	1,951.0	1,780.2	1,760.5	1,688.0	1,837.9	21,825.7
Plant 1 Bkr 1130 MW	S	2,319.7	2,022.9	2,091.5	2,018.5	3,476.7	4,531.8	5,291.4	5,298.5	5,031.3	5,694.3	6,378.7	6,338.5	50,493.7
Plant 1 Bkr 1030 MW	S	(16.2)	(13.6)	(17.7)	(18.0)	159.4	(20.8)	(22.3)	(22.3)	(21.6)	(22.1)	(21.1)	(17.1)	(53.5)
Plant 1 Bkr 630 MW	S	477.4	434.0	376.0	440.5	481.8	405.9	342.0	418.7	344.7	507.6	481.7	521.1	5,231.2
Total North District - Distribution Substation		77,670.4	71,102.6	73,379.5	68,649.7	67,839.8	66,047.3	70,778.1	69,783.4	66,254.1	70,202.4	73,294.6	82,634.9	857,636.8
Total Energy Leaving System		245,857.7	211,360.3	234,533.0	215,985.0	214,472.6	204,410.3	213,021.4	194,272.8	209,910.5	212,301.2	244,047.1	276,334.6	2,676,506.5
Gross Energy Losses		2,659.4	1,816.0	3,114.1	3,720.7	3,886.1	3,456.6	3,105.7	4,187.8	3,957.6	8,907.2	4,754.6	3,360.0	46,925.7
Less Transformer Losses														
University (w/ Station Load)	O	163.9	163.9	163.9	163.9	163.9	163.9	163.9	163.9	163.9	163.9	163.9	163.9	1,966.3
Beluga	O	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	452.9
Indian	O	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	71.7
Girdwood	O	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	379.1
Portage	O	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	282.3
Hope	O	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	27.6
Summit Lake	O	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	24.7
Daves Creek	O	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	197.7
International	O	162.1	162.1	162.1	162.1	162.1	162.1	162.1	162.1	162.1	162.1	162.1	162.1	1,945.5
Sub 6 (Pending Study)	O	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	217.7
Sub 7 (Pending Study)	O	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sub 8	O	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	367.1
Sub 10 (Pending Study)	O	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sub 15	O	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	310.1
Sub 16 (Pending Study)	O	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sub 20	O	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	168.2
Total Transformer Losses		534.2	534.2	534.2	534.2	534.2	534.2	534.2	534.2	534.2	534.2	534.2	534.2	6,410.9
Net G&T Losses		2,125.2	1,281.7	2,579.9	3,186.4	3,351.8	2,922.4	2,571.5	3,653.5	3,423.4	8,372.9	4,220.3	2,825.8	40,514.8

Chugach Electric Association, Inc.
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Tariff Advice No. 591-8

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Measurement Point	Source ¹	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25	Dec-25	Total 2025
Chugach Retail Distribution Losses														
Retail Receipts @ Trans SS		178,472.1	161,691.6	164,205.1	152,468.9	149,041.6	143,518.1	151,809.4	151,707.7	146,654.3	157,380.1	169,228.1	193,412.7	1,919,589.7
Less: Chugach House Pwr.	O	662.6	596.0	576.2	519.6	484.6	423.1	423.0	389.5	596.2	632.8	391.7	824.5	6,519.9
Net Receipts		177,809.5	161,095.6	163,628.8	151,949.3	148,557.0	143,095.0	151,386.4	151,318.2	146,058.1	156,747.3	168,836.3	192,588.2	1,913,069.8
Retail Sales @ Delivery	O	172,716.6	157,666.4	160,870.6	146,853.7	143,876.8	138,528.6	145,974.2	138,898.0	145,293.2	154,539.7	150,941.6	184,855.8	1,841,015.2
Losses		5,093.0	3,429.3	2,758.2	5,095.6	4,680.2	4,566.4	5,412.2	12,420.2	764.9	2,207.6	17,894.8	7,732.3	72,054.5
Add: 1/2 House Power		331.3	298.0	288.1	259.8	242.3	211.6	211.5	194.8	298.1	316.4	195.9	412.3	3,260.0
Adj. Retail Dist. Losses		5,424.3	3,727.2	3,046.3	5,355.4	4,922.5	4,777.9	5,623.7	12,614.9	1,063.0	2,524.0	18,090.6	8,144.6	75,314.5
At Delivery		3.141%	2.364%	1.894%	3.647%	3.421%	3.449%	3.853%	9.082%	0.732%	1.633%	11.985%	4.406%	4.091%
At Transmission Substation		3.051%	2.314%	1.862%	3.524%	3.314%	3.339%	3.715%	8.337%	0.728%	1.610%	10.715%	4.229%	3.937%
Adjustment of G&T Losses for House Power														
G&T Deliveries														
SES		4,766.3	4,525.0	4,681.4	4,331.3	4,725.0	4,756.2	4,906.0	4,935.3	4,251.5	4,166.5	4,675.6	5,280.0	56,000.1
RETAIL		178,472.1	161,691.6	164,205.1	152,468.9	149,041.6	143,518.1	151,809.4	151,707.7	146,654.3	157,380.1	169,228.1	193,412.7	1,919,589.7
Total Deliveries		183,238.4	166,216.6	168,886.4	156,800.2	153,766.6	148,274.3	156,715.4	156,643.1	150,905.9	161,546.6	173,903.7	198,692.7	1,975,589.8
Net G&T Losses		2,125.2	1,281.7	2,579.9	3,186.4	3,351.8	2,922.4	2,571.5	3,653.5	3,423.4	8,372.9	4,220.3	2,825.8	40,514.8
Add: 1/2 House Power		331.3	298.0	288.1	259.8	242.3	211.6	211.5	194.8	298.1	316.4	195.9	412.3	3,260.0
Adjusted G&T Losses		2,456.5	1,579.7	2,868.0	3,446.2	3,594.1	3,133.9	2,783.0	3,848.3	3,721.5	8,689.3	4,416.2	3,238.0	43,774.8
At Delivery		1.341%	0.950%	1.698%	2.198%	2.337%	2.114%	1.776%	2.457%	2.466%	5.379%	2.539%	1.630%	2.216%
At Generation		1.323%	0.941%	1.670%	2.151%	2.284%	2.070%	1.745%	2.398%	2.407%	5.104%	2.477%	1.604%	2.168%

¹Source of Data:
M: Metered data.
S: SCADA interval data.
O: Non-interval data.

Attachment II

Chugach Electric Association, Inc.
 Monthly G&T Line Loss Calculation; U-99-106
 In Accordance with Section 7, Black and Veatch G&T Line Loss Study
 Tariff Advice No. 591-8

2025 Transformer Loss Calculations - Chugach Retail System

Transformer	Size (MVA)	No Load Loss (MW)	Full Load Loss (MW)	Annual (MWh)	Load Factor	Transformer Losses at Load Factor (MW)	Annual Losses (MWh)
Beluga 1022	11.20	0.02200	0.10000	26,062.03	27%	0.029	254.53
Beluga 6126	10.00	0.02200	0.10000	7,018.51	8%	0.023	198.34
Daves Creek	10.00	0.02200	0.10000	6,625.08	8%	0.023	197.73
Girdwood	10.00	0.03100	0.14000	25,942.36	30%	0.043	379.12
Hope	1.25	0.00275	0.01250	1,953.12	18%	0.003	27.57
Indian	2.50	0.00770	0.03500	2,582.00	12%	0.008	71.71
Portage	10.00	0.03100	0.14000	8,209.59	9%	0.032	282.33
Summit	1.25	0.00275	0.01250	788.00	7%	0.003	24.66
UVSS	45.00	0.06500	0.53500	233,590.25	30%	0.112	980.81
UVSS Station Service Load	0.23	--	--	--	50%	0.113	985.50
International T1 ¹	75.00	0.10204	0.13187	203,473.27	31%	0.115	1,004.64
International T2 ¹	75.00	0.10204	0.13187	132,465.75	20%	0.107	940.83
Sub 6 12KV Xfmr (Pending Study) ²	16.80			62,815.05	43%	-	-
Sub 6 34.5KV Xfmr	28.00	0.02190	0.07830	47,625.91	19%	0.025	217.70
Sub 7 (Pending Study)	16.80			45,005.02	31%	-	-
Sub 8 BKR 4 Xfmr	16.80	0.01368	0.04788	42,718.56	29%	0.018	155.18
Sub 8 BKR 14 Xfmr	16.80	0.01344	0.04852	69,289.96	47%	0.024	211.95
Sub 10 (Pending Study)	16.80			41,225.32	28%	-	-
Sub 15	28.00	0.01686	0.12207	95,594.77	39%	0.035	310.12
Sub 16 (Pending Study)	16.80			51,629.47	35%	-	-
Sub 20	16.80	0.01480	0.05980	39,917.43	27%	0.019	168.19
Total							

¹ MWh readings obtained from high side of the transformer. Excluded are MWh generated by IGT.

² Pending study to provide transformer data per IEEE C57 Standard testing