#### 2022 Rate Case ONCOR ELECTRIC DELIVERY COMPANY LLC Reg Asset Account 1824000 Meter Reader Severances (AMS) For Test Year Ending December 31, 2021 Sponsor: W. Alan Ledbetter

Meter Reader Severances (AMS) were approved in Docket No 48957 Five-year amortization was approved in Docket No. 46957 and began 11-27-2017 when rates were effective. (Previously, recovered through AMCRF which ended 11-26-2017)

Current			Prior month			Amortization	Current Month
Month	Beg/End Bal Month	Beginning Bal	amortization	Activity	Ending Balance	Periods	Amortization
New 10	October 16	507 222 40	(13 005 70)		404 016 70	20	12 005 71
NOV-16	October-16	507,222 49	(13,00570)		494,21079	38	13,005 / 1
Dec-16	November-16	494,216 79	(13,005 71)		481,211.08	37	13,005 70
lan-17	December-16	481 211 08	(13 005 70)		468 205 38	36	13 005 71
Jan 17	December-10	401,211,00	(13,00370)		400,200.00	50	10,003 7 1
Feb-17	January-17	468,205 38	(13,005 /1)		455,199.67	35	13,005.70
Mar-17	February-17	455,199 67	(13,005 70)		442,193 97	34	13,005 71
A 17	Marcab 17	442 402 07	(12 005 74)		420 488 26		12 005 70
Apr-17	March- (7	442,193 97	(13,005.71)		429,100 20	22	13,005,70
May-17	April-17	429,188 26	(13,005 70)		416,182 56	32	13,005 71
hin-17	May-17	416 182 56	(13 005 71)		403 176 85	31	13 005 70
301-17	With your 17	410,102.50	(15,005 7 1)		405,170.05	11	15,005 70
Jul-17	June-17	403,176 85	(13,005 70)		390,171 15	30	13,005 71
Aug-17	Julv-17	390.171.15	(13,005 71)		377,165 44	29	13.005 70
0		077.405.44	(10,005,70)		004 450 74		10,005,71
Sep-17	August-17	377,165 44	(13,005 70)		364,15974	28	13,005 71
Oct-17	September-17	364,159 74	(13,005 71)		351,154 03	27	13,005 70
Nov-17	10/31/17	351 154 03	(13 005 70)		338 148 33	26	11 271 62
1404-17	10/5 // 11	001,104,00	(13,003,10)		000,140.00	20	11,271.02
Nov-17	11/26/17	338,148 33	(11,271 62)		326,876 71	60	726 39
Dec-17	11/27/2017 - 11/30/2017	326.876 71	(726 39)		326,150 32	60	5.447 95
		000 450 00	( = = = = )		000,000,07		5,117,05
Jan-18	December-1/	326,150.32	(5,447 95)		320,702 37	59	5,447 95
Feb-18	January-18	320,702 37	(5,447 95)		315,254 42	58	5,447 95
Mag 10	Eshaves 19	245 254 42	15 447 05		200 006 47	c7	E 447 05
War-16	February- 18	315,254 42	(5,447 95)		309,600 47	57	5,447.95
Apr-18	March-18	309,806 47	(5,447.95)		304,358 52	56	5,447 95
May-18	April-18	304 358 52	(5 447 95)		298 910 57	55	5 447 95
Niciji 10	10	000,000 02	(0,117.00)		200,010 01		5,117.00
Jun-18	May-18	298,910 57	(5,447 95)		293,462 62	54	5,447 95
Jul-18	June-18	293,462 62	(5,447 95)		288,014,67	53	5,447,95
Aux 10	( du 1D	100 044 67	16 447 061		202 666 72	53	E 447.0E
Aug-18	July-18	288,014 67	(5,447 95)		282,500 /2	52	5,447 95
Sep-18	August-18	282,566 72	(5,447 95)		277,11877	51	5,447 95
Oct-18	Sentember-18	277 118 77	(5 447 95)		271 670 82	50	5 447 95
000-10	Oeptenber-10	277,11077	(0,447 00)		211,070 02	50	3,447 00
Nov-18	October-18	271,670 82	(5,447 95)		266,222 87	49	5,447 95
Dec-18	November-18	266,222 87	(5,447.95)		260,774 92	48	5,447 95
ian 10	December-18	260 774 92	(5 447 95)		255 326 97	17	5 447 95
Janeis	December-10	200,114 02	(0,447 00)		200,020 07	47	5,447 55
Feb-19	January-19	255,326 97	(5,447 95)		249,879 02	46	5,447 95
Mar-19	February-19	249.879.02	(5.447 95)		244,431 07	45	5.447.95
A 40	Marsh 10	044 404 07	(0, 147,00)		000.000.40		5 447 05
Apr-19	March-19	244,431.07	(5,447 95)		238,983,12	44	5,447 95
May-19	April-19	238,983.12	(5,447 95)		233,535 17	43	5,447 95
lun 19	May-19	233 535 17	(5 447 95)		228 087 22	60	5 447 95
Juneta	Iviay-15	200,000 17	(3,447 33)		220,007 22	42	5,447 85
Jul-19	June-19	228,087.22	(5,447 95)		222,639 27	41	5,447 95
Aug-19	July-19	222,639,27	(5 447 95)		217,191 32	40	5.447.95
C 10	August 10	247 404 22	(E 447 OE)		244 742 27	20	E 447 DE
Sep-19	August-19	217,191 32	(5,447 95)		211,743,37	39	5,447 95
Oct-19	September-19	211,743 37	(5,447.95)		206,295 42	38	5,447 95
Nov-19	October-19	206 295 42	(5 447 95)		200 847 47	37	5 447 95
1404-15	October-15	200,200,42	(5,447 05)		200,047 47	57	5,447 05
Dec-19	November-19	200,847 47	(5,447 95)		195,399 52	36	5,447 95
Jan-20	December-19	195,399 52	(5,447 95)		189,951 57	35	5,447 95
Eab 20	10011001 20	100 061 67	(5 447 06)		194 603 63	34	6 447 95
Feb-20	January-20	109,931 57	(5,447 55)		104,003 02	54	5,447 85
Mar-20	February-20	184,503.62	(5,447 95)		179,055 67	33	5,447 95
Apr-20	March-20	179 055 67	(5 447 95)		173 607 72	32	5 447 95
1.00	t 00	470,007 70	(0,117.00)		100,450,77		5,447,05
May-20	April-20	1/3,607 /2	(5,447 95)		168,15977	51	5,447,85
Jun-20	May-20	168,159,77	(5,447,95)		162,711 82	30	5,447,95
1.4.20	lung 30	160 711 00	15 447 05		157 262 07	20	E 447 05
Jui-20	June-20	102,711 02	(5,447 95)		157,203 07	29	5,447 95
Aug-20	July-20	157,263 87	(5,447 95)		151,815 92	28	5,447 95
Sep-20	August-20	151 815 92	(5 447 95)		146 367 97	27	5 447 95
000 20		101,010 02	(0,117 00)		1 10,000 00	27	5 4 7 95
001-20	September-20	140,307 97	(2,447 95)		140,920.02	26	0,447 95
Nov-20	October-20	140,920 02	(5,447 95)		135,472 07	25	5,447 95
Dec.20	November-20	135 472 07	15 447 95)		130 024 12	24	5 447 95
000-20	a -	100,472.07	(3,441, 33)		100,024 12	24	5,441 55
Jan-21	December-20	130,024 12	(5,447 95)		124,576.17	23	5,447 95
Feb-21	January-21	124,576 17	(5.447.95)		119.128 22	22	5.447 95
14-1 01		110 400 00	(5,, 50)		440.000.07		C 447 07
Mar-21	February-21	119,128.22	(5,447 95)		113,680 27	21	5,447 95
Apr-21	March-21	113,680 27	(5,447 95)		108,232 32	20	5,447 95
May 21	4 or 1 24	108 222 22	(E AA7 DE)		102 784 27	10	5 447 04
iviay+2 I	April-21	100,232 32	(3,447 35)		102,704 37	19	3,447 33
Jun-21	May-21	102,784 37	(5,447 95)		97,336 42	18	5,447 95
Jul-21	lune-21	97 336 42	(5 447 95)		91 888 47	17	5 447 95
001-21	5011e-21	01,000 42	(0,447,00)		01,000 47	1/	0,777,00
Aug-21	July-21	91,888 47	(5,447 95)		86,440 52	16	5,447 95
Sep-21	August-21	86,440 52	(5.447 95)		80.992 57	15	5,447 95
Oct 24	Donianskar Of	90,000,57	(5,		75 514 00		E 447 0C
006-21	September-21	o0,392 57	(0,447 95)		10,044 02	14	0,447 95
Nov-21	October-21	75,544 62	(5,447 95)		70,096 67	13	5,447 95
Dec-21	November 21	70 096 67	(5 447 05)		64 648 72	10	5 447 95
000-21	November 21	10,090.01	(3,441 35)		04,040 /2	12	0,441 00
Jan-22	December-21	64,648,72	(5,447 95)		59,200.77	11	5,447 95
Feb-22	Januarv-22	59,200 77	(5.447 95)		53,752 82	10	5.447.95
Mar 22	Eshruppy 20	63 753 90	(E 447 00)		40 204 07		E 447 0E
war-22	February-22	53,152 82	(0,447 95)		48,304.87	9	5,447 95
Apr-22	March-22	48,304 87	(5,447 95)		42,856 92	8	5,447 95
May-22	And-22	42 856 92	(5 447 95)		37 408 97	7	5 447 95
		-2,000 02	(0,777,00)		01,400 01	· · ·	5,447,00
Jun-22	May-22	37,408 97	(5,447 95)		31,961 02	6	5,447 95
Jul-22	June-22	31,961.02	(5.447 95)		26.513 07	5	5,447 95
Aug 22	huby co	26 642 07	(E 447 00)		24 DEE 40		E 447 07
Aug-22	July-22	20,010 07	(3,447 95)		21,005 12	4	5,447 95

#### WP/II-E-4 1 1 AMS Meter Reader Severances Regulatory Asset Page 3 of 3

# 2022 Rate Case ONCOR ELECTRIC DELIVERY COMPANY LLC Reg Asset Account 1824000 Meter Reader Severances (AMS) For Test Year Ending December 31, 2021 Sponsor. W. Alan Ledbetter

Meter Reader Severances (AMS) were approved in Docket No 46957 Five-year amortization was approved in Docket No 46957 and began 11-27-2017 when rates were effective (Previously, recovered through AMCRF which ended 11-26-2017)

Current			Prior month			Amortization	Current Month	ן
Month	Beg/End Bal Month	Beginning Bal	amortization	Activity	Ending Balance	Periods	Amortization	
Sep-22	August-22	21,065 12	(5,447 95)		15,617 17	3	5,447 95	
Oct-22	September-22	15,617 17	(5,447 95)		10,169 22	2	5,447 95	
Nov-22	October-22	10,169 22	(5,447 95)		4,721 27	1	4,721 27	partial month (26 days

.

Reference Docket No 46957 Finding of Fact Nos

Areterated backet two 40501 impling of Fact twos 36 All Oncor investment, including advanced metering system (AMS) investment, through the end of the test year (December 31, 2016) of \$10,989,502,464, including \$12,570,327,998 of net plant in service, as presented in Oncor's RFP, is prudent and includable in rate base, except that the six neighborhood reliability lithium-ion batteries used by Oncor are not included in this finding Oncor can seek a prudence finding related to these batteries in a future proceeding to these batteries in a future proceeding 37 All investment in the distribution and transmission assets that are provided to Oncor in the Sharyland Transaction are used by and useful to Oncor in providing service, are prudent, reasonable, and necessary, and are includable in Oncor's rate base, which with the inclusion of those assets is \$10,991,993,213

26 days of amort based on prior rate case amortization of 11 years 4 days of amortization based on Dkt 46957 amort of 5 years

.

326,876 71 November 26, 2017 Unamortized Bal 60 Months

5,447 95 Monthly Amortization

65,375 40 Test year amortization 11,840 15 per year (53,535 25) A902 Requesting five-year amortization in the 2021 base rate case K&M O&M adjustment #35

If approved in 2022 base rate case, amortization schedule will be revised to reflect five-year recovery of 12-31-2021 balance

2022 Rate Case WP/II-E-4.1.1 AMS Under-recovery reg asset **Oncor Electric Delivery Company LLC** Page 1 of 1 Regulatory Asset Account 1824200 AMS Under-recovery For Test Year Ending December 31, 2021 Sponsor: W. Alan Ledbetter Balance approved in Docket No 46957 \$ 204,757,130.60 Amortization by year (AMS under-recovery asset was approved with a 10-year amortization in Docket No 46957) Annual amortization approved in Docket No 46957 of \$20,475,713 reduces billed base rate revenues and the AMS under-recovery reg asset 11-27-2017 through 12-31-2017 \$ (1,933,817.94) Docket No. 46957 base rates effective 11-27-2017 2018 \$ (20,475,713.00) 2019 \$ (20,475,713 00) 2020 \$ (20,475,713 00) 2021 \$ (20,475,713.00) Unamortized balance approved in Docket No. 46957 \$ 120,920,460 66 Balance approved in Docket No 49721 \$ 6,384,000.00 AMCRF cancel/rebills 11-27-2017 through 12-31-2021 Ś (4,669.28)Balance at 12-31-2021 \$ 127,299,791 38 Annual amortization - five-year recovery requested in this docket \$ 25,459,958.28 Sch II-E-4.1 and II-E-4 1.1 Increase in amortization from Docket No 46957 base-rate recovery Ś 4,984,245 28

Requested annual amortization over five-years will reduce billed base rate revenues and the AMS under-recovery reg asset

Docket No. 46957 Application of Oncor for Authority to Change Rates (2017 base rate case)

Ordering Paragraphs from Order

11. Oncor's regulatory-asset balances shall be amortized over 10 years as shown below, beginning on November 27, 2017

AMS: Balance - \$204,757,130 Annual Amortization - \$20,475,713

12. If Oncor recovers more than its approved balance of AMS regulatory asset, Oncor shall refund the over-recovered amount.

Docket No. 49721 Reconciliation of 2017 AMS Costs and Final Determination of Net Operating Cost Savings from AMS Deployment Ordering Paragraphs from Order

1. Oncor's application to reconcile its AMS costs from January 1, through November 26, 2017 is approved to the extent provided in this Order. 2 Oncor must add the approved under-recovered \$6 384 million of AMS costs that Oncor incurred from January 1, 2017 through November 26, 2017 to Oncor's existing AMS under-recovered regulatory asset approved by the Commission in Docket No. 46957, which reflects the differences between the AMS surcharges billed and the net revenue requirements based on the actual expenses and net investment, and must recover that additional under-recovered amount in future base rates. 3 Oncor must record the costs of this reconciliation as a regulatory asset, and those costs must be reviewed in Oncor's next base-rate case.

#### WP II-E 4 1 1 COVID19 Incremental Expense Reg Asset Oncor Electric Delivery Company LLC Page 1 of 1 Regulatory Asset Account 1823575 - COVID19-Incremental Expense For Test Year Ending December 31, 2021 2020-2021 K&M Adjusted Sponsor W Alan Ledbetter Grand Total Adjustment Total Comments Contractor Expenses To minimize the chance of contamination all Oncor facilities were cleaned multiple times daily. Areas were also wiped down Additional Cleaning 9,328,772 00 9,328,772 00 daily which was not on a normal basis prior to the COVID19 pandemic Additional Information Technology contractors were required and also working after hours to maintain the Oncor system Information Technology System Support 371 770 80 371,770 80 impact from increased remote use activity. This included system enhancements, upgrades, and services to existing systems Local law enforcement provided security to facilities to ensure that only employees and required contractors entered Oncor facilities and followed entry procedures Contract personnel provided temperature screening at Oncor facilities to employees Security & Medical 10,703,680 39 10,703,680 39 and contractors to enter the buildings 20,404,223 19 20.404.223 19 Total Contractor Expenses Employee Expenses Employee Appreciation 9,160 41 \$ (4,824 94) 4,335 47 Employee appreciation expenses were meal gift cards or group meals To avoid exposure of traveling to various food locations, meals were provided at Oncor facilities to take back to their work areas Only one person per vehicle was allowed which required employees to use personal vehicles to travel to work sites Meals/Mileage/Hotel 2,111,550 35 2,111,550 35 Employees also incurred mileage, hotel and parking expenses traveling to backup office locations to enable social distancing. purchased vacation that employees were unable to use and the company repaid the employees for what they were not able vacation buyback 868,896 66 868,896 66 to take due to Covid 19 (245 92) Over-correction of variable labor allocation moved out of Regulatory Asset account Non Productive Time Clearing (245 92) Total Employee Expenses 2,989,361 50 2,989,361 50 Material/Supplies Purchases The increased cleaning and sanitizing of Oncor facilities resulted the need for additional cleaning supplies for mopping floors, spraying services, travel sprays, paper goods, individually wrapped eating utensils, etc. Safety supplies were also impacted with the need to ensure that rental vehicles and personal vehicles used for company use had proper safety supplies in those 2,347,274 75 vehicles 2.347.274 75 Safety/Cleaning Supplies 2,347,274 75 Total Material/Supplies Purchases 2,347,274 75 Professional/Consulting Services Expenses covered analysis of work areas when bringing personnel back to Oncor facility. Services and review of Oncor systems 941,146 03 on load impact from remote use Legal services for regulatory, FERC, and Cyber Security from Covid19 impacts 941,146 03 COVID19 consulting/ discussion 941,146 03 941,146 03 Total Professional/Consulting Services Rental/Lease Expenses Temporary mobile offices have been leased to provide work areas for those employees that are needed to be at Oncor 305,839 18 305,839 18 facilities Generators were also leased to provide the required power to the temporary offices Generators Rental & Supplies For social distancing furnishings for temporary office areas included, tables, chairs, ceiling fans, small refrigerators, temporary Mobile office & hand wash stations(Temporary Office 408,511 96 restrooms Cubicle work stations were installed for additional distancing 444,863 39 (36,351 43) Eurnishings) Only one person per vehicle required the use of rental vehicles Pickups and cars are the main rentals with a few service body trucks A few bucket trucks have been rented in case another bucket truck is down for an extended period and the rental 7.038.060 13 bucket truck helps continue operations. Rental Vehicles 7,038,060 13 Working remotely required the ability to have meetings that allowed for presentation sharing. Using systems such as 189,034 52 Wifi/Zoom/Webex provides this capability This required several groups to get these systems to continue meetings remotely Wifi/Zoom/Webex 189,034 52

7,977,797 22

34,618,626

(41,176)

Docket No SD664 issues Related to the State of Disaster for Coronavirus Disease 2019, Third Order Related to Accrual of Regulatory Assets, Accounting Order

1. Each electric utility and water and sewer utility in the state of Texas shall record as a regulatory asset expenses resulting from the effects of COVID-19

2 In future proceedings, the Commission will consider, on a case by case basis, the appropriate adjustment to a utility's rates to reflect the recovery of the approved amount of regulatory assets recorded in accordance with this Order (see detail on tab Docket No. 50664)

7.977.797.22

34,659,803

Requestion amortization of regulatory asset 1823575 over five years in this case Balance - \$34,618,626 32

Total Rental/Lease Expenses

Grand Total

42)	
Amortization	
	34,618,626 32
(6,923,725 26)	27,694,901 06
(6,923,725 26)	20,771,175 79
(6,923,725 26)	13,847,450 53
(6,923,725 26)	6,923,725 26
(6,923,725 26)	-
	12) Amortization (6,923,725 26) (6,923,725 26) (6,923,725 26) (6,923,725 26) (6,923,725 26)

2022 Rate Case

2022 Rate Case Oncor Electric Delivery Company LLC Over-Refund of Capital Structure Refund (Docket No 48522 Rider CSR & Rider WCSR - DLS & XFMR) For Test Year Ending December 31, 2021 Sponsor W. Alan Ledbetter

Regulatory Liability Account 2541351 by project for the Capital Str	ructure Refund				Cap Structure		To be collected/(refunded)
CSREFUND Cap Structure Refund Regulatory Liability	\$	(3,491,822 10) Amount to be refunded	Docket No 48522 allocation factors *	Factors as a % of total	Reg Liability Refund	Over-refund/to be collected/(refunded)	Over 5 years
CSRFDGRD GuardlightsCap Struct Ref	\$	(9 542 63)					
CSRFDLPR Primigrtr 10kw Cap Struct Ref	\$	(167,006 44)	2 456888%	4 203815%	(146,789 74)	20,216 70	\$ 4,043 34
CSRFDLSC SEC Gtr 10kw Cap Structure Ref	\$	(1,414,921 29)	22 220160%	38 019414%	(1,327,570 29) \$	87,351 00	\$ 17,470 20
CSRFDMTL Metered SL Cap Struct Ref	\$	(1,212 24)					\$ -
CSRFDRES RES Cap Structure Refund	\$	(1,837,915 23)	31 122307%	53 251276%	\$ (1,859,439 81) \$	(21,524 58)	\$ (4,304 92)
CSRFDSPR Prim less 10kw Cap Struct Ref	\$	(919 20)	0 015394%	0 026340%	(919 73)	\$ (0 53)	\$ (0 11)
CSRFDSSC Sec less10kw Cap Structure Ref	\$	(92,152 06)	1 478648%	2 530015%	\$ (88,343.61) \$	3,808 45	\$ 761 69
CSRFDSUB Prim Substalion Cap Struct Ref	\$	(10,784 31)	0 157406%	0 269327%	\$ (9,404.41) \$	1,379 90	\$ 275 98
CSRFDTRN Transmission Cap Struct Ref	\$	(7,254 09)	0 113927%	0 194933%	\$ (6,806 71) \$	§ 447 38	\$ 89.48
CSRFDUML Unmtr SL Cap Struct Ref	\$	(31,611 84)	0 717020%	1 226844%	\$ (42,839 23) \$	s (472 52)	\$ (94 50)
WCSRDLS0 Wholesale DLS Cap Struct Ref	\$	(40 47)	0 132896%	0 227389%	\$ (7,940 03) \$	\$ (7,899 56)	\$ (1,579 91)
WCSRXFMR Wholesale XFMR Cap Struct Ref	\$	(106 79)	0 029601%	0 050648%	\$ (1,768 55) \$	(1,661 76)	\$ (332 35)
Refunds to date (incl cancel/rebilis)	\$	(3,573,466 59)	58 444247%	100 000000%	\$ (3,491,822 10) \$	81,644 49	\$ 16,328 90
							K&M adjustment #38
Over-Refund of Capital Structure Refund to be collected	\$	81,644 49 Balance at 12-31-2021	Excluding Network Transmission (fully refunded)				Account 928

\* Docket No 48522, Item No 1, page 11 of 21 Three projects reflect lighting class Requested recovery

4697

2022 Rate Case Oncor Electric Delivery Company LLC Regulatory Asset 1823200-Mobile Generators Costs For Test Year Ending December 31, 2021 Sponsor: W. Alan Ledbetter

Legal costs for mobile gen leases (Hunton - HB 2483 Emergency_Nov)	\$10,588 00
Legal costs for mobile gen leases (Hunton - HB 2483 Emergency_Dec)	\$15,500 00
Balance at 12-31-2021	\$26,088,00

#### Requested recovery over 5 years Requested recovery of annual amortization expense (account 592)

5 \$ 5,217 60 K&M adjustment #40

### HB 2483

(h) The commission shall permit

(1) a transmission and distribution utility that leases and operates facilities under Subsection (b)(1) to recover the reasonable and necessary costs of leasing and operating the facilities, including the present value of future payments required under the lease, using the rate of return on investment established in the commission's final order in the utility's most recent base rate proceeding; and

(2) a transmission and distribution utility that procures, owns, and operates facilities under Subsection (b)(2) to recover the reasonable and necessary costs of procuring, owning, and operating the facilities, using the rate of return on investment established in the commission's final order in the utility's most recent base rate proceeding

(i) The commission shall authorize a transmission and distribution utility to defer for recovery in a future ratemaking proceeding the incremental operations and maintenance expenses and the return, not otherwise recovered in a rate proceeding, associated with the leasing or procurement, ownership, and operation of the facilities.

(j) A transmission and distribution utility may request recovery of the reasonable and necessary costs of leasing or procuring, owning, and operating facilities under this section, including any deferred expenses, through a proceeding under Section 36 210 or in another ratemaking proceeding. A lease under Subsection (b)(1) must be treated as a capital lease or finance lease for ratemaking purposes

(k) This section expires September 1, 2029

#### PURA § 39 918

(h) The commission shall permit (1) a transmission and distribution utility that leases and operates facilities under Subsection (b)(1) to recover the reasonable and necessary costs of leasing and operating the facilities, including the present value of future payments required under the lease, using the rate of return on investment established in the commission's final order in the utility's most recent base rate proceeding, and (2) a transmission and distribution utility that procures, owns, and operates facilities under Subsection (b)(2) to recover the reasonable and necessary costs of procuring, owning, and operating the facilities, using the rate of return on investment established in the commission's final order in the utility's most recent base rate proceeding. (i) The commission shall authorize a transmission and distribution utility to defer for recovery in a future ratemaking proceeding the incremental operations and maintenance expenses and the return, not otherwise recovered in a rate proceeding, associated with the leasing or procurement, ownership, and operation of the facilities (j) A transmission and distribution utility may request recovery of the reasonable and necessary costs of leasing or procuring, owning, and operating facilities under this section, including any deferred expenses, through a proceeding under Section 36 210 or in another ratemaking proceeding. A lease under Subsection (b)(1) must be treated as a capital lease or finance lease for ratemaking purposes (k) This section expires September 1, 2029

WP/II-E-4.1.1 Intangible Asset Over-Amortization Regulatory Liability
Page 1 of 1

				2021 test year entries
	Transmission	Distribution		Accumulated Provision
Amortization Adustment				Am
2012	-	47 160 08		To adjust amortizat
2013		130 329 59		
2014		267.039.01		Operating Revenues
2015		543 783 79		Interest Evnense
2016	25 339 07	802 661 77		Red
2017	36 256 14	928 588 47		To accrue regulator
2018	40 133 47	4 071 810 52		to occide regulato.
2019	40,133,42	4 699 103 64		
2015	40,133 42	4,033,103.04		
2020	40,133.42	5 120 186 99		
Total	222,128 91	21,581,924 02		
Regulatory Liability				
Excess Amortization in Bates				
2017	3 790 38	69 136 05		
2017	40 122 42	1 645 670 49		·····
2018	40,133 42	2,043,079 40		Onerating Revenue De
2019	40,133 42	3,872,200 63		Operating Revenue De
2020	40,133 42	4,770,813 51		Distribution DCRF Tota
2021	40,133.42	4,571,100 17		Distribution Deter Tota
Sub-Lotal	164,324 08	15,328,989 85		Residential
				Small Sec-IDR
lexas GMI on Excess Amort				Small Sec-NIDR
2017	20.01	364 90		Small Pri-IDR
2018	211 82	8,685 90		Small Pri-NIDR
2019	211 82	20,437 47		Large Sec-IDR
2020	211 82	25,180.35		Large Sec-NIDR
2021	211 82	26,237 /8		Large Pri-IDR
Sub-Total	867 30	80,906 41		Large Pri-NIDR Substation-IDR
Lower Return on Rate Base				Substation-NIDR
2017	(162 42)	(14,531 34)		Transmission
2018	(1,719 72)	(180,455 57)		Unmetered Ltg
2019	(1,719 72)	(350,246 25)		Metered Ltg
2020	(1,719 72)	(718,015 87)		GuardLights
2021	(1,719 72)	(1,098,828,78)		Wholesale-Substn
Sub-Total	(7,041 30)	(2,362,077.81)		Wholesale-DL
Carrying Cost on Overbilling				Transmission Total
2017	0 21	51.23	0 58%	
2018	224 92	7.055.30	1.05%	· · · · ·
2019	1 207 76	68 899 30	1 99%	Interest Excense Break
2020	2 374 54	162 862 62	2.35%	interest expense break
2021	1,160,62	87,137,89	0.82%	Distribution
Sub Tatal	4.058.05	336,006,34	0 02/0	Transmussion
Sub-rotal	4,500 05	326,000 34		Transmission
Net Regulatory Liability by Year				
2017	3,648 18	55,020 84		
2018	38,850 45	1,480,965 11		
2019	39,833 29	3,611,291 16		
2020	41,000 07	4,240,840 62		
2021	39,786 15	3,985,707 06		Total
Total at 12/31/2021	163,118 13	13,373,824 79		(13,536,942 92) Reg

(32,623 63) (2,674,764 96)

Amortization expense

ccumulated Provision for Amortization	21,804,052 94			
Amortization Expense	21,804	,052 94		
To adjust amortization expense for untimely	intangible plant retirements			
perating Revenues	13,205,968 53			
iterest Expense	330,974 39			
Regulatory Liability	13,536	,942 92		
To accrue regulatory liability for overbilling i	related to intongible retirements			

Operating Revenue Debit 8	reakdown			12ME 12/31/202
Distribution DCRF Total	Account		13,047,818 45	DCRF Rev
Residential	4405008	53 1948%	6,940,760 93	70018750 92
Small Sec-IDR	4425008	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	134 24	1,381 60
Small Sec-NIDR	4425208	2 343376	305,615 29	3,145,342 71
Small Pri-IDR	4426008	0.0197%	21 35	194 17
Small Pri-NIDR	4426208	] 0.018776	2,418 59	21,990 99
Large Sec-IDR	4427008	29 1990%	1,530,173 41	16,035,658 68
Large Sec-NIDR	4427208	} 30 100570	3,452,644 93	36,182,458 34
Large Pri-IDR	4428008	2 035494	432,942 91	4,681,002 66
Large Pri-NIDR	4428208	5 5 5 5 5 4 76	80,540.94	870,813 04
Substation-IDR	4428108	0.055.494	33,178 12	406,288.10
Substation-NIDR	4428128	f 02554%	146 01	1,788 01
Transmission	4429008	0 1010%	13,178 30	162,115 37
Unmetered Ltg	4445008	]	163,086 82	1,665,867 68
Metered Ltg	4446008	1 6831%	5,656 80	57,781 95
GuardLights	4447008	J	50,864 21	519,557 88
Wholesale-Substn	4471008	0 0496%	6,471 72	
Wholesale-DL	4471009	0 2298%	29,983 88	
Transmission Total	4470000		158,150 08	
Interest Expense Breakdow	n			
Distribution	4310100		326,006 34	
Transmission	4310100		4,968.05	

Total				
(13,536,942 92) Reg liability - to be refunded	Sch II-8-12		TRAN	DIST
(2,707,388 58) to be refunded over S years	Sch II-E-4 1	Account 407	(32,623.63)	(2,674,764 96)

2022 Rate Case Oncor Electric Delivery Company LLC Oncor NTU Regulatory Asset - Study Costs/Transition to Competition (Account 1824500) For Test Year Ending December 31, 2021 Sponsor: W. Alan Ledbetter

		Post-acquisition		
	Balance acquired at S-16-2019	amortization * Ba	ance at 12-31-2021	
Transmission Project	\$ 1,049,228 0	D \$	1,049,228 00	See Note 1 below
Transition to Competition - SPS Settlement	\$ 325,044.0	D \$	325,044.00	Costs incurred for move from the SPP to ERCOT and to transition to retail competition - SPP charges for that SPS incurred to serve Sharyland's network load (transmission charges SPP billed to SPS after transition from SPP system)
Transition to Competition	\$ 1,666,137.0	0 \$ (437,561 58) \$	1,228,575 42	Costs incurred for move from the SPP to ERCOT and to transition to retail competition.
Total NTU regulatory asset	\$ 3,040,409.0	D \$ (437,561.58) \$	2,602,847.42	
Total NTU regulatory asset for TRAN and DIST		\$	2,602,847 42	NTU TRAN NTU DIST \$ 1,883,105 60 \$ 719,741 82
			NTU T&D	NTU TRAN NTU DIST
Requested recovery (amortization) over S years in this	case	\$	520,569 48	\$ 376,621 12 \$ 143,948 36
less current recovery and related amortization through	WTS rate	\$	166,775 52	\$ 166,775 52 \$ -
Increase in recovery and related amortization - K&A	1 adjustment #37	\$	353,793 96	\$ 209,845 60 \$ 143,948 36 Account 928

#### PUC Dockets

Docket No 37990 Joint Report and Application of Sharyland Utilities, L P., Sharyland Distribution & Transmission Services, L L C., Hunt Transmission Services, L L C., Cap Rock Energy Corporation, and Newcorp Resources Electric Cooperative, Inc. for Regulatory Approvals Pursuant to PURA § 14.101, 37 154, 39 262, and 39 915

Docket No 39070 Application of Sharyland Utilities, LP to Approve Study and Plan Pursuant to the Commission's Order in Docket No 37990 Concerning the Movement of Sharyland's Stanton and Colorado City Divisions from the Southwest Power Pool to ERCOT Docket No 37990 and for Other Relief

Project No 41137 Reports on Transitioning Sharyland Stanton, Colorado City, Brady and Celeste Divisions to Competition Pursuant to Order in Docket No 39592

Docket No. 41430 Joint Report and Application of Sharyland Utilities, LP, Sharyland Distribution & Transmission Services, LLC and Southwestern Public Service Company for Approval of Purchase and Sale of Facilities, for Regulatory Accounting Treatment of Gain on Sale, and for Transfer of Certificate Rights

Docket No 41474 Application of Sharyland Utilities, L P. to Establish Retail Delivery Rates, Approve Tariff for Retail Delivery Service, and Adjust Wholesale Transmission Rate (approved original Rider Transition to Competition Charge) Docket No 45414 Review of the Rates of Sharyland Utilities, L P., Establishment of Rates for Sharyland Distribution & Transmission Services, L L C, and Request for Grant of a Certificate of Convenience and Necessity and Transfer of Certificate Rights Docket No. 47469 Joint Report and Application of Sharyland Utilities, L P. Sharyland Distribution & Transmission Services, L L C, and Request for Grant of a Certificate of Convenience and Necessity and Transfer of Certificate Rights Ocket No. 47469 Joint Report and Application of Sharyland Utilities, L P. Sharyland Distribution & Transmission Services, L L C, and Oncor Electric Delivery Company LLC for Transfer of Facilities, Transfer of Rights Under and Amendment of Certificates of Convenience and Necessity, and for Other Regulatory Approvals

Docket No 48929 Joint Report and Application of Oncor Electric Delivery Company LLC, Sharyland Distribution & Transmission Services L L C, Sharyland Utilities L P, and Sempra Energy for Regulatory Approvals under PURA §§ 14 101, 37.154, 39 262 and 39 915 Acquisition date was May 16, 2019 Oncor NTU's WTS tariff effective May 17, 2019 (Docket No 49519)

\* Oncor NTU's WTS tariff includes annual amortization for transition to competition regulatory asset of \$166,775 52

Note 1 - Transmission Project (Docket No\_40537 Application of Sharyland Utilities, LP to Amend a Certificate of Convenience and Necessity for the Gardendale to Grady 138-kV Transmission Line in Martin and Midland Counties)

Sharyland moved from SPP to ERCOT and transitioned to competition pursuant to Commission orders issued in Docket Nos 39070 and 39592

Prior to purchase of the Hobbs to Mudland and Grassland to Borden lines from SPS (Docket No. 41430) costs were incurred for labor, overhead, engineering services, and land appraisals to develop the Gardendale to Grady line

The Gardendale to Grady line was ultimately cancelled after SPS decided that it could sell the Hobbs to Midland and Grassland to Border lines to Sharyland

It was necessary to begin planning for other transmission solutions because SPS originally refused to sell those lines, and failure to have planned for a transmission solution to the load growth that was occurring in the Stanton division would have placed

## WP\_II-E-4.1.1 PLSA Regulatory Asset Page 1 of 1

2022 Rate Case Oncor Electric Delivery Company LLC Power Line Safety Regulatory Asset (Account 1824700) Test Year Ending 12-31-2021 Sponsor: W. Alan Ledbetter

			Proposed recovery over				
	Balar	nce at 12-31-2021	K&M adjustment	Adjust	ed test year balance		five years
TRAN	\$	6,343,989.41		\$	6,343,989.41	\$	1,268,797.88
NTU TRAN	\$	556,203.00		\$	556,203.00	\$	111,240.60
DIST	\$	647,372.72	\$ (34,164.94)	\$	613,207.78	\$	122,641.56
	\$	7,547,565.13	\$ (34,164.94)	\$	7,513,400.19	\$	1,502,680.04

## PURA §36.066. COSTS RELATED TO REPORTING ON SAFETY PROCESSES AND INSPECTIONS FOR CERTAIN UTILITIES

(a) Costs incurred by an electric utility to comply with Section 38.102 shall be recorded as a regulatory asset for timely recovery in rates established by the commission. (b) The commission may adopt rules relating to the recording of regulatory assets under this section.

Note, PURA §38.102 REPORTS ON SAFETY PROCESSES AND INSPECTIONS and §38.004 MINIMUM CLEARANCE STANDARD.

The Public Utility Commission of Texas adopted 16 Texas Administrative Code (TAC) §25.97, relating to Line Inspection and Safety, without changes to the proposed text as published in the November 29, 2019 issue of the Texas Register (44 Tex. Reg. 7272 (2019)). The new rule implemented the safety reporting provisions in Public Utility Regulatory Act (PURA) §38.102, which was enacted by the 86th Texas Legislature in House Bill 4150 (HB 4150). HB 4150 also added §§35.010 and 36.066, and amended §38.004. These changes to PURA became effective on September 1, 2019. This new rule was adopted under Project Number 49827.

2022 Rate Case Oncor Electric Delivery Company LLC Regulatory Asset Account 1822050 - Rocky Mound Series Compensator Rocky Mound Reactive Compensation Facilities Project Termination For Test Year Ending December 31, 2021 Sponsor: W. Alan Ledbetter

Regulatory asset account 1822050 costs for Rocky Mound Reactive Compensation Facilities Project Termination (costs transferred from cancelled capex project 10T63150).

Construction Overheads	114,043.11	
Contractor Expense	135,289.88	
Employee Expenses other than labor	28,660.11	
Environmental Permits/DD	325.00	
Grading	69,400.07	
Ground Surveying	31,704.46	
Materials & Supplies	1,376.97	
Professional Svcs External	1,109,563.12	
Security Fencing	 28,535.00	
Balance at 12-31-2021	\$ 1,518,897.72	-
Amortization period in years	5	
Requested annual amortization	\$ 303,779.54	Account 407 (Sch II-E-4.1 and II-E-4.1.1)

The CREZ Reactive Power Study Compensation Study was filed by ERCOT in Docket No. 33672. Study confirmed that the Clear Crossing - Willow Creek CREZ transmission line should be built with 50% series compensation, designed to be installed at Rocky Mound.

In Docket No. 37902, Oncor was awarded one half of the 50% reactive compensation to be installed on the Clear Crossing - Willow Creek 345 kV CREZ transmission line. Estimated cost of new facilities was \$30 million. These facilities were to be installed at Oncor's Rocky Mound station location. Following the award of this facility, Oncor undertook sourcing efforts, secured a contractor, and ordered the series capacitors that would be installed at Rocky Mound.

Joint notifications were filed in Docket Nos. 37902 and 38517 on 9-7-2012, 9-25-2014, and 1-11-2018. Docket No. 37902 Update Notifications of CREZ Project Update reflected ERCOT and Oncor believed it was prudent to complete the CREZ Reactive Study prior to installation of the Rocky Mound series capacitors to allow possible changes in the specifications or type of series capacitors to be installed and insure that the proper protection and mitigation measures are in place prior to energization of the series capacitors. ERCOT believed that a new 2015 in-service date was acceptable.

Given certain Subsynchronous Oscillation ('SSO") concerns, ERCOT requested that Oncor halt procurement of the Rocky Mound series compensation facilities in 2012. On September 7, 2012, Oncor and ERCOT notified the Public Utility Commission of Texas ("Commission") that the Rocky Mound series compensation would not be placed in-service according to the CREZ schedule to permit additional SSO study. The Commission was then further notified in September 2014, that the project would be on-hold until further notice. Prior to ERCOT's 2012 request that Oncor suspend activities related to the series compensation, Oncor dilgently pursued placing these facilities in-service on the Commission's designated timeline. This work included preparing the site, entering into procurement contracts, and conducting engineering planning and design. These activities totaled \$1.519M in costs, but avoided approximately \$25.8M of additional costs necessary to put these facilities in-service.

Docket No. 38517 Application of Oncor to Amend its CCN for the Clear Crossing-Willow Creek CREZ 345 kV Transmission Line

## Oncor Transmission capex project 10T63150 cancelled

Project description: CREZ 50% SERIES COMPENSATION #A ON THE CLEAR CROSSING - WILL This work authorization covers the cost to perform preliminary engineering studies to install a 50% series compensation on the 345 kV CREZ double circuit line from Clear Crossing - Willow Creek (2-1926.9 kcmil ACSS/TW conductors). Project was planned for service by 12-2-2013.

#### WP II-E-4.1 1 Sharyland Interim Rate Reg Asset Page 1 of 4

27,023 48

#### 2022 Rate Case Oncor Electric Delivery Company LLC Support for Sharyland Interim Rate Regulatory Asset (Account 1824400) Test Year Ending December 31, 2021 Sponsor. W Alan Ledbetter

Oncor's Regulatory Asset for Sharyland's Residential Interim Rates Account 1824400

Docket No 47469 Order, Ordering Paragraph No 10 The Commission approves Oncor's recovery of the interim rate regulatory asset related to Sharyland Ulilities' residential interim rates approved in Docket No 45414, but not until the Commission approves the manner in which it will be recovered in a future proceeding

	Fina	I Reimbursements per Sharyland files	Dock	et No 45414-On July 28, 20	017, SOAH issued Order No 27, app	proving Sharyland's requested interim rates	
September 2017	\$	124,805 33					
October 2017	\$	233,581 17					
November 2017	\$	241,953 01				Account 928	
December 2017	\$	27,023 48					
Total	\$	627,362 99 Balance @ 12/31/2021	Requested recovery period	5 years	Requested annual amortization	\$ 125,472 60 K&M O&M adjustment #50	Account 928

September 2017 Billings by Cycle			October 2017 B	ilings by Cycle			November 2017	November 2017 Billings by Cycle				December 2017 Billings by Cycle			
Row Labels	Sum of Distribution System Charge	Sum of Old Rate @ 0.062669	Sum of Rate Change Difference	Row Labels	Sum of Distribution System Charge	Sum of Old Rate @ 0 062669	Sum of Rate Change Difference	Row Labels	Sum of Distribution System Charge	Sum of Old Rate @ 0.062669	Sum of Rate Change Difference	Row Labels	Sum of Distribution System Charge	Sum of Old Rate @ 0.062669	Sum of Rate Change Difference
SU_01	87,881 35	87,920 55	(39 20)	SU_01	137,091 16	157,228 47	(20,137 31)	MC_01	53,878 76	93,823 78	(39,945 02)	MC_01	11,725 45	20,418 69	(8,693 24)
SU_02	157,960 52	158,035 93	(75 41)	SU_02	108,649 11	124,628 00	(15,978 89)	MC_02	41,910 42	72,982 16	(31,071 74)	SU_01	1,804 23	2,069 67	(265 44)
SU_03	178,456 76	178,514 77	(58 01)	SU_03	132,549 82	152,004 67	(19,454 85)	MC_03	20,912 65	36,416 96	(15,504 31)	SU_02	27,377 33	31,403 63	(4,026 30)
SU_04	225,781 75	225,857 62	(75 87)	SU_04	169,103 66	193,976 07	(24,872 41)	SU_01	23,760 18	27,255 80	(3,495 62)	SU_03	26,619 99	30,534 87	(3,914 88)
SU_05	427,465 76	427,754 03	(288 27)	SU_05	332,386 85	381,294 04	(48,907 19)	SU_02	90,000 86	103,237 61	(13,236 75)	SU_04	31,413 68	36,033 73	(4,620 05)
SU 06	204,272 50	235,805 49	(31,532 99)	SU_06	171,748 34	197,007.67	(25,259 33)	SU_03	102,515 99	117,593 22	(15,077 23)	SU_05	25,547 02	29,310 52	(3,763 50)
SU_07	73,200 61	84,373 08	(11,172 47)	SU_07	61,177 31	70,174 86	(8,997 55)	SU_04	133,297 87	152,901 86	(19,603 99)	SU_06	9,984 83	11,453 60	(1,468 77)
SU_08	41,318 27	47,647 34	(6,329 07)	SU_08	38,138 94	43,748 04	(5,609 10)	SU_05	229,982 48	263,835 15	(33,852 67)	SU_07	2,145 74	2,461 27	(315 53)
SU_09	95,075 28	108,950 48	(13,875 20)	SU_09	81,155 52	93,091 22	(11,935 70)	SU_06	126,929 93	145,597 54	(18,667 61)	SU_08	(82 04)	(94 11)	12 07
SU_10	65,777 31	75,677 42	(9,900 11)	SU_10	63,252 96	72,555 33	(9,302 37)	SU_07	49,844 31	57,174 78	(7,330 47)	SU_09	(132 41)	(151 89)	19 48
SU_11	47,639 39	54,867 39	(7,228 00)	SU_11	39,059 57	44 804 13	(5,744 56)	SU_08	30,375 38	34,842 70	(4,467 32)	SU_10	(60 88)	(69 83)	8 95
SU 12	50,564 60	58,378 64	(7,814 04)	SU_12	40,827 54	46,831 89	(6,004 35)	SU_09	62,425 83	71,606 81	(9,180 98)	SU_11	(68 08)	(78 09)	10 01
SU_13	31,181 45	36,052 78	(4,871 33)	SU_13	24,682 78	28,312 88	(3,630 10)	SU_10	39,030 39	44,771 00	(5,740 61)	SU_13	(43 07)	(49 40)	6 34
SU_14	48,590 89	56,031 86	(7,440 97)	SU_14	38,720 46	44,414.96	(5,694 50)	SU_11	26,729 78	30,660 72	(3,930 94)	SU_15	(23 55)	(27 02)	3 47
SU 15	21,763 99	25,195 37	(3,431 38)	SU_15	19,279 63	22,115 00	(2,835 37)	SU_12	28,061 11	32,188 33	(4,127 22)	SU_16	0 14	0 17	(0 03)
SU 16	36,100 81	41,420 11	(5,319 30)	SU_16	26,497 73	30,401 59	(3,903 86)	SU_13	17,945 74	20,585 02	(2,639 28)	SU_17	(17 27)	(19 82)	2 55
SU 17	26,572 83	30,480 79	(3,907 96)	SU_17	18,553 65	21,282 25	(2,728 60)	SU_14	26,813 69	30,757 18	(3,943 49)	SU_18	(1 51)	(1 73)	0 22
SU 18	29,697 78	34,061 64	(4,363 86)	SU_18	22,121 66	25,332 94	(3,211 28)	SU_15	11,074 27	12,703 03	(1,628 76)	SU_19	16 62	19 06	(2 44)
SU 19	27,714 60	32,218 71	(4,504,11)	SU 19	23,414 91	26,858 75	(3,443 84)	SU_16	14,045 46	16,111 05	(2,065 59)	SU_20	115 94	132 33	(16 39)
SU 20	17,745 02	20,322 80	(2.577 78)	SU 20	40,319 72	46,249 73	(5,930 01)	SU_17	9,836 00	11,282 57	(1,446 57)	Grand Total	136,322 17	163,345 65	(27,023 48)
Grand Total	1,894,761 47	2,019,566 80	(124,805.33)	Grand Total	1,588,731 32	1,822,312 49	(233,581 17)	SU_18	11,313 69	12,977 60	(1,663 91)				
								SU_19	11,240 57	12,893 70	(1,653 13)				
								SU_20	8,785 06	10,077 15	(1,292 09)				
								(blank)	(387 70)		(387 70)				
								Grand Total	1,170,322 71	1,412,275 72	(241,953,01)				

			Grand Total	1,170,322 71	1,412,275 72	(241,953.01)
Amounts Oncor reimbursed Sharyland and deterred as a regulatory asset until customers were transitioned to Oncor	124,805 33	233,581 1	7			241,953 01

WP II-E-4 1.1 Sharyland Interim Rate Reg Asset Page 2 of 4

Tariff for Retail Delivery Service SHARYLAND UTILITIES, L.P.

Chapter 6			Sheet No. 6
Chapter Title:	Company Specific Items	Effective Date:	September 10, 2017
Applicable:	Sharyland Utilities, L.P.		Revision: 1

## CHAPTER 6: COMPANY SPECIFIC ITEMS

## 6.1 RATE SCHEDULES

- 6.1.1 DELIVERY SYSTEM CHARGES
  - 6.1.1.1 CHARGES FOR TRANSMISSION AND DISTRIBUTION SYSTEM SERVICE
    - 6.1.1.1.1 RESIDENTIAL SERVICE

## AVAILABILITY

This schedule is applicable to Delivery Service for residential purposes of a permanent nature to individual private dwellings, including their appurtenant structures, and to individually metered apartments when such Delivery Service is to one Point of Delivery and measured through one Meter and is not for shared or resale purposes. Residential Service is limited to one individual private dwelling per platted parcel of land or postal delivery address.

If a premise is primarily used for non-residential purposes, Delivery Service will be provided under another of the Company's appropriate Secondary or Primary Service rate schedule. This schedule is not available for non-residential service, including but not limited to water wells, electric gates or fences, barns, boat docks, airplane hangars, or recreational vehicle parks, or for structures on the platted parcel of land requiring a separate Meter.

## **TYPE OF SERVICE**

Delivery Service will be single-phase, 60 hertz, at a standard secondary voltage. Delivery Service will be metered using Company's standard meter provided for this type of Delivery Service. Any other metering option(s) will be provided at an additional charge. Where Delivery Service of the type desired is not available at the Point of Delivery, additional charges and special contract arrangements may be required prior to Delivery Service being furnished.

## MONTHLY RATE

Customer Charge	\$5.69	per Retail Customer	
Metering Charge	\$4.31	per Retail Customer	
Transmission System Charge		See Rider TCRF	
Distribution System Charge	\$0.054634	per kWh	

## I. Transmission and Distribution Charges:

11.	System Benefit Fund Charge:	See Rider SBF
III.	Transmission Cost Recovery Factor:	See Rider TCRF
IV.	Energy Efficiency Cost Recovery Factor:	See Rider EECRF
v.	Transition to Competition Charge:	See Rider TTCC
VI.	Power Cost Recovery Factor Reconciliation:	See Rider PCRFR

Page 91 of 194

2

WP II-E-4 1 1 Sharyland Interim Rate Reg Asset Page 4 of 4

Support for Sharyland Interim Rate Regulatory Asset (Account 1824400) From Docket No. 45414 Unopposed Motion for Residential Interim Rates II Request for Residential Interim Rates

The proposed interm rates will be applied to Sharyland's current residential retail electric delivery customers in the SBC divisions and reflect a Residential class retail electric delivery revenue requirement decrease of 33 million on an annual basis for the SBC divisions. The residential interm rates are proposed to take effect beginning 45 days after entry of an order approving residential interm rates. The residential interm rates would remain in effect until the earlier of (i) the date upon which all of Sharyland's customers in the residential class in the SBC divisions have been transitioned to Oncor, as contemplated in the Proposed Transaction, or (ii) in the event the Proposed Transaction is terminated prior to closing, the effective date of Sharyland's new residential ratel technic delivery rates finally ordered in this rate proceeding The annotated and clean residential tanff sheets with the proposed residential interim rates are attached hereto as Schwith A

Applicants also propose that Sharyland will record on its books as a regulatory asset the difference between the money collected under the residential interm rates and the amount of money that would have been collected under Sharyland's currently-approved residential retail electric delivery rates for the SBC divisions 1 in the event the Proposed Transaction is terminated prior to closing the regulatory asset would be eliminated and the residential interm rates, only, would be subject to return to or surcharge from the Residential class in the SBC divisions to the extent the residential retail electinc delivery rates ultimately established in this rate proceeding differ from the interm rates 2

This request is consistent with the Commission's interim relief rule, 16 TAC § 22,125 Section 22 125(a) of that rule provides that this relief is available for a tariff filing that has been docketed.3 This proceeding, in which Applicants have proposed a retail electric delivery tariff applicable to residential customers, is a docketed case. The rule also provides that interim rates can be granted based on agreement of all parties 4 As discussed above, all parties to this proceeding either support or do not oppose this request for residential interim rates. Section 22 125(b) states, "A request for interim relief shall be filed no later than 30 days before the interim relief is proposed to take effect, unless all parties agee to a later filing "5 This Motion requests that residential interim rates take effect 45 days after an order approving the residential interim rates This request is just and reasonable, as required by 16 TAC § 22 125(d), because the interim rates will provide timely rate relief to the residential customers in Sharyland's SBC divisions during the pendency of the Commission's consideration of the Proposed Transaction and the transition to Oncor 6 Further, OPUC, the party representing the residential customers who will pay the interim rates, supports this Motion Finally, as discussed above, the residential interim rates, only, will be subject to refund or surcharge in this proceeding consistent with 16 TAC § 22 125(e), as well as PURA § 36 155, if the Proposed Transaction is terminated prior to closing Thus, this Motion complies with the applicable Commission rule

÷

## Oncor Electric Delivery Company LLC Business Units - ESD (Distribution), TRN (Transmission) & NTUSU (Transmission) Self-Insurance Reserve/SIR Regulatory Asset Balances to Be Reviewed January 1, 2017 through December 31, 2021 Sponsor: W. Alan Ledbetter

٠

	Los	sses Reflected in SI	R	Annual Ac	crual for SIR Loss Ir	ncidents	Non-Reviewed SIR Deficit / (Surplus)			
Period	Property-A924	Liability-A925	Total	Property-A924	Liability-A925	Total	Property-A924	Liability-A925	Total	
January 2017	-	-	-	(2,579,543.36)	(194,159.18)	(2,773,702.54)	(2,579,543.36)	(194,159 18)	(2,773,702.54)	
February 2017	(14,885.28)	-	(14,885.28)	(2,579,543.36)	(194,159 18)	(2,773,702.54)	(2,594,428 64)	(194,159.18)	(2,788,587.82)	
March 2017	11,164,838.16	24,495 92	11,189,334 08	(2,579,543 36)	(194,159.18)	(2,773,702.54)	8,585,294.80	(169,663.26)	8,415,631 54	
April 2017	(10,829,896 63)	-	(10,829,896.63)	(2,579,543 36)	(194,159.18)	(2,773,702.54)	(13,409,439.99)	(194,159.18)	(13,603,599.17)	
May 2017	3,752,737.83	-	3,752,737.83	(2,579,543.36)	(194,159.18)	(2,773,702.54)	1,173,194.47	(194,159.18)	979,035 29	
June 2017	50,724,380.63	24,608 71	50,748,989 34	(2,579,543 36)	(194,159 18)	(2,773,702 54)	48,144,837.27	(169,550.47)	47,975,286.80	
July 2017	(25,388,116.77)	-	(25,388,116 77)	(2,579,543 36)	(194,159.18)	(2,773,702.54)	(27,967,660.13)	(194,159.18)	(28,161,819.31)	
August 2017	6,816,568.13	-	6,816,568 13	(2,579,543.36)	(194,159 18)	(2,773,702.54)	4,237,024.77	(194,159.18)	4,042,865.59	
September 2017	42,432,199 25	3,022,962 22	45,455,161.47	(2,579,543 36)	(194,159.18)	(2,773,702.54)	39,852,655.89	2,828,803.04	42,681,458.93	
October 2017	(13,599,702 14)	(3,000,000.00)	(16,599,702.14)	(2,579,543.36)	(194,159.18)	(2,773,702.54)	(16,179,245.50)	(3,194,159.18)	(19,373,404.68)	
November 2017	8,909,894 42	(194,208 61)	8,715,685.81	(2,993,937.58)	(243,271 29)	(3,237,208.87)	5,915,956.84	(437,479.90)	5,478,476.94	
December 2017	5,403,831 52	2,970,504 09	8,374,335.61	(5,687,500.00)	(562,500 00)	(6,250,000.00)	(283,668.48)	2,408,004.09	2,124,335.61	
2017 Totals	79,371,849.12	2,848,362.33	82,220,211.45	(34,476,871.18)	(2,747,363.09)	(37,224,234.27)	44,894,977.94	100,999.24	44,995,977.18	

	Lo	sses Reflected in SI	R	Annual Ac	crual for SIR Loss In	ncidents	Non-Reviewed SIR Deficit / (Surplus)			
Period	Property-A924	Liability-A925	Total	Property-A924	Liability-A925	Total	Property-A924	Liability-A925	Total	
January 2018	-	-	-	(5,687,500 00)	(562,500 00)	(6,250,000.00)	(5,687,500.00)	(562,500 00)	(6,250,000 00)	
February 2018	-	-	-	(5,687,500.00)	(562,500.00)	(6,250,000 00)	(5,687,500.00)	(562,500.00)	(6,250,000.00)	
March 2018	12,079,543 96	30,024.14	12,109,568.10	(5,687,500 00)	(562,500.00)	(6,250,000.00)	6,392,043.96	(532,475.86)	5,859,568.10	
April 2018	(12,079,543 96)	-	(12,079,543.96)	(5,687,500.00)	(562,500.00)	(6,250,000.00)	(17,767,043.96)	(562,500 00)	(18,329,543.96)	
May 2018	765,227.71	-	765,227 71	(5,687,500.00)	(562,500.00)	(6,250,000.00)	(4,922,272.29)	(562,500 00)	(5,484,772 29)	
June 2018	37,182,287.76	43,938.85	37,226,226 61	(5,687,500 00)	(562,500 00)	(6,250,000.00)	31,494,787.76	(518,561.15)	30,976,226.61	
July 2018	(21,108,040.85)	-	(21,108,040 85)	(5,687,500 00)	(562,500.00)	(6,250,000.00)	(26,795,540 85)	(562,500.00)	(27,358,040.85)	
August 2018	8,907,706.94	-	8,907,706.94	(5,687,500 00)	(562,500.00)	(6,250,000.00)	3,220,206.94	(562,500.00)	2,657,706.94	
September 2018	34,310,552.75	•	34,310,552 75	(5,687,500.00)	(562,500.00)	(6,250,000.00)	28,623,052.75	(562,500.00)	28,060,552.75	
October 2018	(20,790,712.07)	-	(20,790,712 07)	(5,687,500.00)	(562,500.00)	(6,250,000 00)	(26,478,212.07)	(562,500.00)	(27,040,712.07)	
November 2018	4,920,817 20	-	4,920,817.20	(5,687,500 00)	(562,500.00)	(6,250,000.00)	(766,682 80)	(562,500 00)	(1,329,182 80)	
December 2018	39,748,090 23	56,749.98	39,804,840 21	(5,687,500.00)	(562,500 00)	(6,250,000.00)	34,060,590 23	(505,750 02)	33,554,840 21	
2018 Totals	83,935,929 67	130,712 97	84,066,642 64	(68,250,000.00)	(6,750,000.00)	(75,000,000.00)	15,685,929.67	(6,619,287.03)	9,066,642.64	

.

			·····			······································				
	Losses Reflected in SIR			Annual Ac	crual for SIR Loss In	cidents	Non-Reviewed SIR Deficit / (Surplus)			
Period	Property-A924	Liability-A925	Total	Property-A924	Liability-A925	Total	Property-A924	Liability-A925	Total	
January 2019	113,907 38	-	113,907 38	(5,687,500.00)	(562,500 00)	(6,250,000.00)	(5,573,592.62)	(562,500.00)	(6,136,092.62)	
February 2019	655,668 75		655,668 75	(5,687,500.00)	(562,500.00)	(6,250,000.00)	(5,031,831.25)	(562,500.00)	(5,594,331.25)	
March 2019	12,270,469.43	23,560 88	12,294,030.31	(5,687,500.00)	(562,500 00)	(6,250,000.00)	6,582,969.43	(538,939.12)	6,044,030.31	
Aprıl 2019	(8,645,932.24)	-	(8,645,932.24)	(5,687,500.00)	(562,500.00)	(6,250,000 00)	(14,333,432.24)	(562,500 00)	(14,895,932 24)	
May 2019	2,478,246.20	3,000,000.00	5,478,246.20	(5,687,500.00)	(562,500.00)	(6,250,000.00)	(3,209,253.80)	2,437,500 00	(771,753.80)	
June 2019	116,048,221.60	4,971,142.38	121,019,363 98	(5,687,500.00)	(562,500 00)	(6,250,000 00)	110,360,721 60	4,408,642 38	114,769,363 98	
July 2019	(116,048,221.60)	(4,138,552.58)	(120,186,774 18)	(5,687,500.00)	(562,500.00)	(6,250,000.00)	(121,735,721 60)	(4,701,052.58)	(126,436,774.18)	
August 2019	15,103,896.64	(155,366.88)	14,948,529 76	(5,687,500.00)	(562,500.00)	(6,250,000.00)	9,416,396.64	(717,866.88)	8,698,529.76	
September 2019	164,028,018 98	7,610,012 37	171,638,031.35	(5,687,500.00)	(562,500.00)	(6,250,000.00)	158,340,518.98	7,047,512.37	165,388,031.35	
October 2019	(105,919,461.06)	(7,576,647 65)	(113,496,108.71)	(5,687,500.00)	(562,500.00)	(6,250,000.00)	(111,606,961 06)	(8,139,147.65)	(119,746,108.71)	
November 2019	1,462,359.38	3,000,000.00	4,462,359.38	(5,687,500.00)	(562,500 00)	(6,250,000.00)	(4,225,140.62)	2,437,500.00	(1,787,640.62)	
December 2019	158,892,406.74	7,397,511 95	166,289,918.69	(5,687,500.00)	(562,500 00)	(6,250,000.00)	153,204,906 74	6,835,011.95	160,039,918.69	
2019 Totals	240,439,580 20	14,131,660.47	254,571,240.67	(68,250,000 00)	(6,750,000.00)	(75,000,000.00)	172,189,580.20	7,381,660.47	179,571,240.67	

	Los	sses Reflected in Sil	R	Annual Ac	crual for SIR Loss I	ncidents	Non-Reviewed SIR Deficit / (Surplus)			
Period	Property-A924	Liability-A925	Total	Property-A924	Liability-A925	Total	Property-A924	Liability-A925	Total	
January 2020	-	(6,006,851 93)	(6,006,851 93)	(5,687,500 00)	(562,500.00)	(6,250,000 00)	(5,687,500.00)	(6,569,351.93)	(12,256,851.93)	
February 2020	(588,053 70)	-	(588,053 70)	(5,687,500.00)	(562,500.00)	(6,250,000 00)	(6,275,553.70)	(562,500.00)	(6,838,053 70)	
March 2020	7,540,921 14	197,996.22	7,738,917 36	(5,687,500.00)	(562,500.00)	(6,250,000.00)	1,853,421.14	(364,503.78)	1,488,917.36	
April 2020	(7,507,268.39)	(107,017.71)	(7,614,286 10)	(5,687,500.00)	(562,500.00)	(6,250,000.00)	(13,194,768.39)	(669,517 71)	(13,864,286.10)	
May 2020	83,713 27	-	83,713 27	(5,687,500.00)	(562,500 00)	(6,250,000.00)	(5,603,786.73)	(562,500 00)	(6,166,286.73)	
June 2020	44,916,446.74	745,121.91	45,661,568.65	(5,687,500.00)	(562,500.00)	(6,250,000.00)	39,228,946.74	182,621.91	39,411,568.65	
July 2020	(42,513,755.36)	(187,261 50)	(42,701,016 86)	(5,687,500.00)	(562,500.00)	(6,250,000.00)	(48,201,255.36)	(749,761 50)	(48,951,016.86)	
August 2020	3,167,281.91	-	3,167,281.91	(5,687,500 00)	(562,500.00)	(6,250,000 00)	(2,520,218.09)	(562,500.00)	(3,082,718.09)	
September 2020	81,106,543 57	250,528 56	81,357,072 13	(5,687,500.00)	(562,500.00)	(6,250,000.00)	75,419,043.57	(311,971 44)	75,107,072.13	
October 2020	(45,725,186.21)	644,862 43	(45,080,323 78)	(5,687,500 00)	(562,500.00)	(6,250,000 00)	(51,412,686.21)	82,362.43	(51,330,323.78)	
November 2020	15,098,382.85	-	15,098,382.85	(5,687,500 00)	(562,500.00)	(6,250,000 00)	9,410,882.85	(562,500.00)	8,848,382.85	
December 2020	39,136,676 91	(1,437,608 72)	37,699,068 19	(5,687,500 00)	(562,500.00)	(6,250,000.00)	33,449,176.91	(2,000,108 72)	31,449,068.19	
2020 Totals	94,715,702.73	(5,900,230 74)	88,815,471.99	(68,250,000.00)	(6,750,000 00)	(75,000,000.00)	26,465,702.73	(12,650,230.74)	13,815,471.99	

				1							
	Los	ses Reflected in Sl	R	1	Annual Ac	crual for SIR Loss I	ncidents	Non-Reviewed SIR Deficit / (Surplus)			
Period	Property-A924	Liability-A925	Total		Property-A924	Liability-A925	Total	Property-A924	Liability-A925	Total	
January 2021	(84,294.27)	-	(84,294 27)		(5,687,500.00)	(562,500 00)	(6,250,000 00)	(5,771,794.27)	(562,500 00)	(6,334,294.27)	
February 2021	94,598.49	-	94,598.49		(5,687,500.00)	(562,500 00)	(6,250,000.00)	(5,592,901.51)	(562,500.00)	(6,155,401.51)	
March 2021	111,514,555 09	34,473 92	111,549,029.01		(5,687,500.00)	(562,500 00)	(6,250,000.00)	105,827,055 09	(528,026 08)	105,299,029 01	
April 2021	(107,369,235 75)	(403.34)	(107,369,639 09)		(5,687,500.00)	(562,500 00)	(6,250,000 00)	(113,056,735.75)	(562,903.34)	(113,619,639.09)	
May 2021	16,863,654.61	-	16,863,654 61		(5,687,500.00)	(562,500 00)	(6,250,000.00)	11,176,154 61	(562,500.00)	10,613,654.61	
June 2021	125,572,169 72	3,048,942 71	128,621,112.43		(5,687,500.00)	(562,500 00)	(6,250,000.00)	119,884,669.72	2,486,442.71	122,371,112.43	
July 2021	(125,572,169 72)	(3,026,680 03)	(128,598,849 75)		(5,687,500 00)	(562,500.00)	(6,250,000.00)	(131,259,669.72)	(3,589,180.03)	(134,848,849.75)	
August 2021	6,481,001.76	-	6,481,001 76		(5,687,500 00)	(562,500.00)	(6,250,000 00)	793,501.76	(562,500.00)	231,001.76	
September 2021	136,754,983 76	3,234,883 00	139,989,866 76		(5,687,500.00)	(562,500.00)	(6,250,000 00)	131,067,483 76	2,672,383 00	133,739,866 76	
October 2021	(11,432,863.50)	(3,078,476.85)	(14,511,340.35)		(5,687,500 00)	(562,500.00)	(6,250,000 00)	(17,120,363.50)	(3,640,976 85)	(20,761,340 35)	
November 2021	6,501,086.28	-	6,501,086.28		(5,687,500 00)	(562,500 00)	(6,250,000.00)	813,586.28	(562,500.00)	251,086.28	
December 2021	29,432,468.36	3,840,430 27	33,272,898 63		(5,687,500.00)	(562,500 00)	(6,250,000 00)	23,744,968.36	3,277,930 27	27,022,898.63	
2021 Totals	188,755,954.83	4,053,169.68	192,809,124 51		(68,250,000 00)	(6,750,000.00)	(75,000,000.00)	120,505,954.83	(2,696,830.32)	117,809,124.51	
5 Year Total & 12/31/21 Bai	687,219,016 55	15,263,674 71	702,482,691 26		(307,476,871.18)	(29,747,363 09)	(337,224,234.27)	379,742,145 37	(14,483,688 38)	365,258,456 99	

## Requested recovery - amortizations over 5 years

K&M adjustment #45 75,948,429.07 (2,896,737 68) 73,051,691 40

Requesting 5-year recovery (amortization) of to be reviewed balance

5

Verify to NOREVIEW balance from 3DELV Cons GL BU Trial Balance 2021 Dec. 365,258,456 99

#### 2022 Rate Case Oncor Electric Delivery Company LLC Self Insurance Reserve Reg Asset - Approved Most Recently in Docket No 46957 Sponsor W. Alan Ledbetter

WP/II-E-4.1.1 SIR Approved Page 1 of 4

Requested 5-year recovery of approved unamortized balance @ 12-31-2021

#### ONCOR ELECTRIC DELIVERY COMPANY LLC (incl. Oncor NTU) SELF INSURANCE RESERVE - APPROVED BALANCE AND AMORTIZATION 8 YEAR AMORTIZATION PERIOD 01/01/12 - 11/26/17

Reviewed and approved in Docket No 38929 (Finding of Fact No 42)	<u>TOTAL</u> 252,115,362.32	<u>DIST (ESD)</u> 256,575,192 45	<u>TRAN (TRN)</u> (4,459,830.13)	<u>Annual Amo</u> 31,514,420 29
Property - 924 (based on actual reserve balance)	261,268,079.00	264,422,105 26	(3,154,026.26)	32,658,509 88
Liability - 925 (based on actual reserve balance)	(9,152,716.67)	(7,846,912 80)	(1,305,803 87)	(1,144,089 58)
Reviewed and approved balance al 01/01/2012	221,488,943 91	225 130,741 89	(3,641,797 99) Difference	due to continued amortization
	30,626,418 41	31,444,450 56	(818,032 14) from 06/3	D/10 to 12/31/11

#### ONCOR ELECTRIC DELIVERY COMPANY LLC (incl Oncor NTU) SELF INSURANCE RESERVE AMORTIZATION 10 YEAR AMORTIZATION PERIOD 11/27/17 - 11/30/27

	TOTAL	DIST (ESD)	TRAN (TRN)	Annual Amo						Total
Reviewed and approved in Docket No 46957 (Finding of Fact No 49)	362,504,103.07	360,247,433 05	2,256,670 02	36,250,410 31						DIST & TRAN
Balance of Reviewed and approved in prior Docket	63,916,842 51	64,771,246 89	(854,404 39)	6,391,684 25		DIST	TRAN	DIST	TRAN	A924 & A925
Reviewed and approved balance at 12/31/2016	426,420,945 58	425,018,679 94	1,402,265 63	42,642,094.56				Docket No 4695	57 Approved	
						2017 - 2021 /	mortization	unamortized balance	es @ 12-31-2021	
Property - 924 (based on actual reserve balance)	413,082,605 37	410,617,286 78	2,465,318.59	41,308,260 54	A924 Property	198,056,080 02	652,392.67	212,561,206.76	1,812,925 92	
Liability - 925 (based on actual reserve balance)	13,338,340 20	14,401,393 17	(1,063,052 96)	1,333,834 02	A925 Liability	5,008,343 45	(583,070 61)	9,393,049 72	(479,982 35)	
				42,642,094.56		203,064,423 47	69,322 06	221,954,256 48	1,332,943 57	223,287,200 05
Reviewed and approved balance at 11/27/2017 Property A924	383,508,510 31	380,686,173.47	2,822,336 84 Differen	ce due to continued amorbzation				Requested recovery -	amortizations	Total
Reviewed and approved balance at 11/27/2017 Liability A925	14,374,376 90	15,289,620.16	(915,243 25) from 01/	/01/17 to 11/26/17			A924 Property	42,512,241.35	362,585.18	42,874,826 53
							A925 Liability	1,878,609.94	(95,996 47)	1,782,613 47

#### Amortization of Project APPROVED in A1866400 and A2281000 as follows

2,754,396 93

(81,738 68)

2,672,658 25

139,605,677.89

(32,854 44)

DIST (ESD) TRAN (TRN) 5 1866400 9240000 9250000 1866400 9240000 9250000 Period Property Liability Total Balance Property Liability Total Balance (32,854 44) (13,602.12) (46,456.56) (3,595,341.43) Docket No 38929 base rates and emortizations effective 01/01/2012 through 11/26/2017 (81,738.68) 2,672,658 25 222,458,083 64 Jan-12 2,754,396 93 (81,738 68) 2,672,658 25 219,785,425 39 (32,854 44) (13,602 12) (46,456.56) (3,548,884.87 2,754 396 93 Feb-12 2 672 658 25 217 112 767 14 (32,854 44) (13,602.12) (46,456 56) (3,502,428 31) 2 754 396 93 (81 738 68) Mar-12 2,672,658 25 214,440,108 89 (32.854.44) (13.602.12) (46.456.56) (3,455,971,75) Apr-12 2,754,396 93 (81,738,68) (3,409,515,19 211.767.450.64 (32.854 44) (13.602.12) (46,456 56) May-12 2.754.396 93 (81,738 68) 2.672.658 25 209 094 792 39 (32 854 44) (13,602 12) (46,456 56) (3,363,058 63) Jun-12 2,754,396 93 (81,738.68) 2.672.658 25 Jui-12 2,754,396 93 (81,738 68) 2,672,658 25 206,422,134 14 (32.854 44) (13.602 12) (46 456 56) (3.316.602.07) (46 456 56) (3,270.145 51 Aug-12 2,754,396 93 (81,738 68) 2,672,658.25 203,749,475 89 (32,854 44) (13,602 12) 2,754,396 93 (81,738 68) 2,672,658 25 201,076,817.64 (32,854 44) (13.602 12) (46,456,56) (3 223 688 95) Sep-12 Oct-12 2,754,396 93 (81,738 68) 2,672,658 25 198,404,159.39 (32,854 44) (13,602 12) (46,456 56) (3.177.232 39) 2,754,396,93 (81,738 68) 2,672,658 25 195,731,501 14 (32,854.44) (13,602.12) (46,456 56) (3,130,775 83 Nov-12 193,058,842 89 (32,854.44) (13,602 12) (46,456 56) (3,084,319 27) 2,754,396.93 (81,738 68) 2,672,658 25 Dec-12 2,754,396,93 (81,738 68) 2,672,658 25 190,386,184.64 (32,854 44) (13,602 12) (46,456 56) (3,037,862 71) Jan-13 2 672 658 25 187 713 526 39 (32,854,44) (13,602 12) (46,456 56) (2,991,406.15) Feb-13 2,754,396.93 (81,738,68) 2,672,658 25 185,040,868.14 (13.602 12) (46.456 56) (2,944,949 59) (32,854.44) Mar-13 2,754,396.93 (81,738 68) 182,368,209 89 (32,854 44) (13,602 12) (46,456 56) (2.898.493.03) 2,754,396 93 (81,738 68) 2,672,658 25 Apr-13 (13,602 12) (46,456 56) May-13 2,754,396 93 (81,738 68) 2,672,658 25 179,695,551 64 (32,854,44) (2 852 036 47 2,754,396 93 (81,738.68) 2,672,658 25 177,022,893 39 (32,854.44) (13,602 12) (46,456 56) (2.805,579.91 Jun-13 Jul-13 2,754,396 93 (81,738 68) 2,672,658 25 174,350,235 14 (32,854.44)(13,602 12) (46,456,56) (2.759,123 35) 2,754,396 93 (81,738 68) 2,672,658 25 171,677,576 89 (32,854 44) (13,602 12) (46,456 56) (2,712,666 79 Aug-13 (32,854 44) (13,602.12) (46,456 56) (2,666,210.23) 2.672.658 25 169.004,918.64 Sep-13 2,754,396,93 (81,738 68) (32,854 44) (13,602.12) (46,456 56) (2,619,753 67 2,672,658 25 166,332,260 39 2 754 396 93 (81 738 68) Oct-13 2,672,658 25 163,659,602.14 (32,854 44) (13,602 12) (46,456 56) (2,573,297 11) Nov-13 2 754 396 93 (81 738 68) (13,602 12) (46,456 56) (2,526,840 55) 2.672.658 25 160.986.943.89 (32,854 44) Dec-13 2,754,396,93 (81 738 68) 158.314.285.64 (32,854,44) (13.602 12) (46.456 56) (2.480,383.99) 2.672.658 25 Jan-14 2 754 396 93 (81,738 68) 2.672.658 25 155,641,627,39 (32,854 44) (13,602 12) (46,456 56) (2,433,927.43) Feb-14 2.754.396 93 (81.738.68) (32 854 44) (13 602.12) (46.456.56) (2.387.470.87) Mar-14 2,754,396 93 (81,738 68) 2,672,658 25 152.968.969 14 (13 602 12) (46 456 56) (2 341 014 31 Apr-14 2,754,396 93 (81,738 68) 2,672,658 25 150.296.310 89 (32 854 44) (32.854 44) (13.602.12) (46.456 56) (2.294.557 75 May-14 2,754,396 93 (81,738 68) 2.672.658 25 147 623 652 64 (32 854 44) (13.602.12) (46.456 56) (2 248 101 19) Jun-14 2,754,396 93 (81,738 68) 2,672,658 25 144.950.994 39 Jul-14 2,754,396 93 (81,738 68) 2,672,658 25 142,278,336 14 (32,854.44) (13.602.12) (46,456 56) (2.201.644 63)

(13,602 12) (46,456 56)

(2,155,188 07)

Aug-14

2022 Rate Case Oncor Electric Delivery Company LLC Self Insurance Reserve Reg Asset - Approved Most Recently in Docket No 46957 Sponsor. W. Alan Ledbetter

Sep-14	2,754,396 93	(81,738 68)	2,672,658 25	136,933,019.64	(32,854 44)	(13,602 12)	(46,456 56)	(2,108,731 51)	
Oct-14	2,754,396 93	(81,738 68)	2,672,658.25	134,260,361 39	(32,854 44)	(13,602.12)	(46,456 56)	(2,062,274 95)	
Nov-14	2,754,396 93	(81,738.68)	2,672,658 25	131,587,703 14	(32,854 44)	(13,602 12)	(46,456 56)	(2,015,818.39)	
Dec-14	2,754,396 93	(81,738 68)	2,672,658 25	128,915,044 89	(32,854.44)	(13,602.12)	(46,456 56)	(1,969,361 83)	
Jan-15	2,754,396.93	(81,738.68)	2,672,658.25	126,242,386 64	(32,854 44)	(13,602 12)	(46,456 56)	(1,922,905 27)	
Feb-15	2,754,396 93	(81,738.68)	2,672,658 25	123,569,728.39	(32,854 44)	(13,602 12)	(46,456 56)	(1,876,448.71)	
Mar-15	2,754,396 93	(81,738.68)	2,672,658 25	120,897,070 14	(32,854.44)	(13,602.12)	(46,456 56)	(1,829,992.15)	
Apr-15	2,754,396 93	(81,738.68)	2,672,658.25	118,224,411 89	(32,854 44)	(13,602 12)	(46,456 56)	(1,783,535.59)	
May-15	2,754,396 93	(81,738 68)	2,672,658 25	115,551,753 64	(32,854 44)	(13,602 12)	(46,456.56)	(1,737,079.03)	
JUN-15	2,704,390.93	(81,738,68)	2,672,658.25	112,879,095.39	(32,854 44)	(13,602.12)	(46,456.56)	(1,690,622 47)	
JU-15	2,754,390 93	(81,738 68)	2,072,058 25	107 522 779 80	(32,854 44)	(13,602.12)	(46,456 56)	(1,644,165.91)	
Aug-15 Sep 15	2,754,350.53	(01,130.00)	2,0/2,000 20	107,535,776.69	(32,654.44)	(13,602 12)	(46,430 36)	(1,597,709.35)	
Oct-15	2,754,396 93	(01,730.00)	2,072,000 20	104,001,120 04 1	(32,034 44)	(13,002 12)	(46,456.56)	(1,001,202 /9)	
Nov-15	2 754 306 93	(81 738 68)	2,072,050 25	99 515 804 14	(32,054,44)	(13,002 12)	(46,456,56)	(1,504,130 23)	
Dec-15	2 754 396 93	(81 738 68)	2,072,050.25	96 BA3 145 B9	(32,854,44)	(13,602,12)	(46,456,56)	(1,430,335 07)	
Jan-16	2 754 396 93	(81 738 68)	2,672,658,25	94 170 487 64	(32,854,44)	(13,602,12)	(46,456,56)	(1 365 426 55)	
Feb-16	2 754 396 93	(81 738 68)	2,672,658,25	91 497 829 39	(32,854,44)	(13,602,12)	(46,456,56)	(1 318 969 99)	
Mar-16	2 754 396 93	(81 738 68)	2 672 658 25	88 825 171 14	(32,854,44)	(13 602 12)	(46,456,56)	(1 272 513 43)	
Apr-16	2 754 396 93	(81 738 68)	2 672 658 25	86 152 512 89	(32 854 44)	(13,602,12)	(46 456 56)	(1 226 056 87)	
May-16	2 754 396 93	(81 738 68)	2 672 658 25	83 479 854 64	(32,854,44)	(13,602,12)	(46,456,56)	(1,179,600,31)	
Jun-16	2 754 396 93	(81,738,68)	2 672 658 25	80,807,196,39	(32,854,44)	(13,602,12)	(46,456 56)	(1,133,143,75)	
Jul-16	2 754 396 93	(81 738 68)	2,672,658,25	78,134,538 14	(32,854 44)	(13.602.12)	(46,456 56)	(1.086.687.19)	
Aug-16	2 754 396 93	(81 738 68)	2 672 658 25	75 461 879 89	(32,854,44)	(13,602,12)	(46,456,56)	(1.040.230.63)	
Sep-16	2,754,396,93	(81,738 68)	2.672.658 25	72,789,221 64	(32,854 44)	(13,602 12)	(46,456 56)	(993,774 07)	
Oct-16	2,754,396,93	(81,738,68)	2.672.658 25	70.116.563 39	(32,854 44)	(13,602,12)	(46,456,56)	(947.317.51)	
Nov-16	2,754,396 93	(81,738 68)	2.672.658 25	67,443,905 14	(32,854 44)	(13,602 12)	(46,456 56)	(900,860 95)	
Dec-16	2,754,396 93	(81,738 68)	2.672.658 25	64,771,246 89	(32,854 44)	(13,602,12)	(46,456 56)	(854,404 39)	
Jan-17	2,754,396 93	(81,738 68)	2,672,658.25	62,098,588 64	(32,854 44)	(13,602 12)	(46,456 56)	(807,947.83)	
Feb-17	2,754,396 93	(81,738 68)	2,672,658 25	59,425,930 39	(32,854 44)	(13,602.12)	(46,456 56)	(761,491,27)	· · · · · · · · · · · · · · · · · · ·
Mar-17	2,754,396.93	(81,738.68)	2,672,658 25	56,753,272 14	(32,854 44)	(13,602.12)	(46,456.56)	(715,034 71)	
Apr-17	2,754,396 93	(81,738 68)	2,672,658 25	54,080,613 89	(32,854 44)	(13,602 12)	(46,456 56)	(668,578 15)	
May-17	2,754,396 93	(81,738 68)	2,672,658 25	51,407,955 64	(32,854 44)	(13,602 12)	(46,456 56)	(622,121 59)	
Jun-17	2,754,396 93	(81,738 68)	2,672,658.25	48,735,297.39	(32,854.44)	(13,602 12)	(46,456 56)	(575,665 03)	
Jul-17	2,754,396 93	(81,738.68)	2,672,658 25	46,062,639 14	(32,854 44)	(13,602 12)	(46,456.56)	(529,208 47)	
Aug_17 (	2 754 206 02								
Aug-17 1	2,704,080 80	(81,738 68)	2,672,658 25	43,389,980 89	(32,854 44)	(13,602 12)	(46,456.56)	(482,751 91)	
Sep-17	2,754,396 93	(81,738 68) (81,738 68)	2,672,658 25 2,672,658 25	43,389,980 89 40,717,322 64	(32,854 44) (32,854 44)	(13,602 12) (13,602 12)	(46,456.56) (46,456.56)	(482,751 91) (436,295.35)	
Sep-17 Oct-17	2,754,396 93 2,754,396 93 2,754,396 93	(81,738 68) (81,738 68) (81,738 68)	2,672,658 25 2,672,658 25 2,672,658 25	43,389,980 89 40,717,322 64 398,292,097.44	(32,854 44) (32,854 44) (32,854.44)	(13,602 12) (13,602 12) (13,602 12)	(46,456.56) (46,456.56) (46,456 56)	(482,751 91) (436,295.35) 1,866,831 23	
Sep-17 Oct-17 11/1/17 - 11/26/17	2,754,396 93 2,754,396 93 2,754,396 93 2,387,144.01	(81,738 68) (81,738 68) (81,738 68) (70,840 19)	2,672,658 25 2,672,658 25 2,672,658 25 2,316,303.82	43,389,980 89 40,717,322 64 398,292,097.44 395,975,793.62	(32,854 44) (32,854 44) (32,854,44) (28,473 85)	(13,602 12) (13,602 12) (13,602 12) (11,788 51)	(46,456.56) (46,456.56) (46,456 56) (40,262.36)	(482,751 91) (436,295.35) 1,866,831 23 1,907,093.59	
Sep-17 Sep-17 Oct-17 11/1/17 - 11/26/17 11/27/17 - 11/30/17	2,754,396 93 2,754,396 93 2,387,144.01 456,241.43	(81,738 68) (81,738 68) (81,738 68) (70,840 19) 16,001 55	2,672,658 25 2,672,658 25 2,672,658 25 2,316,303.82 472,242,98	43,389,980 89 40,717,322 64 398,292,097.44 395,975,793.62 395,503,550 64	(32,854 44) (32,854 44) (32,854.44) (28,473 85) 2,739 24	(13,602 12) (13,602 12) (13,602 12) (11,788 51) (1,181.17)	(46,456.56) (46,456.56) (46,456 56) (40,262.36) 1,558.07	(482,751 91) (436,295.35) 1,866,831 23 1,907,093.59 1,905,535 52	Docket No 46957 base rates and amortizations effective 11/27/2017 and continue until new base-rates are approved and effective
Sep-17 Oct-17 11/1/17 - 11/26/17 11/27/17 - 11/30/17 Dec-17	2,754,396 93 2,754,396 93 2,387,144.01 456,241.43 3,421,810.72	(81,738 68) (81,738 68) (81,738 68) (70,840 19) 16,001 55 120,011 61	2,672,658 25 2,672,658 25 2,672,658 25 2,316,303.82 472,242,98 3,541,822 33	43,389,980 89 40,717,322 64 398,292,097.44 395,975,793.62 395,503,550 64 391,961,728 31	(32,854 44) (32,854 44) (32,854,44) (28,473 85) 2,739 24 20,544 32	(13,602 12) (13,602 12) (13,602 12) (13,602 12) (11,788 51) (1,181.17) (8,858 77)	(46,456.56) (46,456.56) (46,456.56) (40,262.36) 1,558.07 11,685.55	(482,751 91) (436,295.35) 1,866,831 23 1,907,093.59 1,905,535 52 1,893,849 97	Docket No 46957 base rates and amortizations effective 11/27/2017 and continue until new base-rates are approved and effective
Sep-17 Oct-17 11/1/17 - 11/26/17 11/27/17 - 11/30/17 Dec-17 Jan-18	2,754,396 93 2,754,396 93 2,754,396 93 2,387,144.01 456,241,43 3,421,810.72 3,421,810 72	(81,738 68) (81,738 68) (81,738 68) (70,840 19) 16,001 55 120,011 61 120,011 61	2,672,658 25 2,672,658 25 2,672,658 25 2,316,303.82 472,242.98 3,541,822 33 3,541,822 33	43,389,980 89 40,717,322 64 398,292,097.44 395,975,793.62 395,503,550 64 391,961,728 31 388,419,905 98	(32,854 44) (32,854 44) (32,854,44) (28,473 85) 2,739 24 20,544 32 20,544 32	(13,602 12) (13,602 12) (13,602 12) (11,788 51) (1,181,17) (8,858 77) (8,858 77)	(46,456.56) (46,456.56) (46,456.56) (40,262.36) 1,558.07 11,685.55 11,685.55	(482,751 91) (436,295.35) 1,866,831 23 1,907,093.59 1,905,535 52 1,893,849 97 1,882,164 42	Docket No 46957 base rates and amortizations effective 11/27/2017 and continue until new base-rates are approved and effective
Sep-17 Oct-17 11/1/17 - 11/26/17 11/27/17 - 11/30/17 Dec-17 Jan-18 Feb-18	2,754,396 93 2,754,396 93 2,754,396 93 2,387,144.01 456,241,43 3,421,810,72 3,421,810,72	(81,738 68) (81,738 68) (81,738 68) (70,840 19) 16,001 55 120,011 61 120,011 61	2,672,658 25 2,672,658 25 2,316,303.82 472,242.98 3,541,822 33 3,541,822 33	43,389,980 89 40,717,322 64 398,292,097,44 395,975,793,62 395,503,550 64 391,961,728 31 388,419,905 98 384,878,083 65	(32,854 44) (32,854 44) (32,854,44) (28,473 85) 2,739 24 20,544 32 20,544 32 20,544 32	(13,602 12) (13,602 12) (13,602 12) (11,788 51) (1,181,17) (8,858 77) (8,858 77) (8,858 77) (8,858 77)	(46,456.56) (46,456.56) (46,456.56) (40,262.36) 1,558.07 11,685.55 11,685.55 11,685.55	(482,751 91) (436,295,35) 1,866,881 23 1,907,093,59 1,905,535 52 1,893,849 97 1,882,164 42 1,870,478 87 1,870,478 87	Docket No 46957 base rates and amortizations effective 11/27/2017 and continue until new base-rates are approved and effective
Sep-17 Oct-17 11/1/17 - 11/26/17 11/27/17 - 11/30/17 Dec-17 Jan-18 Feb-18 Mar-18	2,754,396 93 2,754,396 93 2,387,144.01 456,241,43 3,421,810,72 3,421,810,72 3,421,810,72	(81,738 68) (81,738 68) (81,738 68) (70,840 19) 16,001 55 120,011 61 120,011 61 120,011 61 120,011 61	2,672,658 25 2,672,658 25 2,316,303,82 472,242,98 3,541,822 33 3,541,822 33 3,541,822 33	43,389,980 89 40,717,322 64 398,292,097,44 395,975,793.62 395,503,550 64 391,961,728 31 388,419,905 98 384,878,083 65 381,336,261 32	(32,854 44) (32,854 44) (32,854,44) (28,473 85) 2,739 24 20,544 32 20,544 32 20,544 32 20,544 32	(13,602 12) (13,602 12) (13,602 12) (11,788 51) (1,181,17) (8,858 77) (8,858,77) (8,858,77) (8,858,77)	(46,456.56) (46,456.56) (46,456.56) (40,262.36) 1,558.07 11,685.55 11,685.55 11,685.55 11,685.55 11,685.55	(482,751 91) (436,295.35) 1,866,881 23 1,907,093.59 1,905,535 52 1,893,849 97 1,882,164 42 1,870,478 87 1,858,793 32 1,847 107 77	Docket No 46957 base rates and amortizations effective 11/27/2017 and continue until new base-rates are approved and effective
Aug-17 Sep-17 Oct-17 11/1/17 - 11/26/17 11/27/17 - 11/30/17 Dec-17 Jan-18 Feb-18 Mar-18 Apr-18	2,754,396 93 2,754,396 93 2,387,144.01 456,241.43 3,421,810.72 3,421,810 72 3,421,810 72 3,421,810 72	(81,738 68) (81,738 68) (81,738 68) (70,840 19) 16,001 55 120,011 61 120,011 61 120,011 61 120,011 61	2,672,658 25 2,672,658 25 2,672,658 25 2,316,303,82 472,242,98 3,541,822 33 3,541,822 33 3,541,822 33 3,541,822 33 3,541,822 33 3,541,822 33	43,389,980 89 40,717,322 64 398,292,097,44 395,975,793.62 395,503,550 64 391,961,728 31 388,419,905 98 384,878,083 65 381,336,261 32 377,794,438 99	(32,854 44) (32,854 44) (32,854 44) (28,473 85) 2,739 24 20,544 32 20,544 32 20,544 32 20,544 32 20,544 32 20,544 32	(13,602 12) (13,602 12) (13,602 12) (11,788 51) (1,181,17) (8,858 77) (8,858 77) (8,858,77) (8,858,77) (8,858,77) (8,858,77)	(46,456.56) (46,456.56) (40,262.36) 1,558.07 11,685 55 11,685 55 11,685 55 11,685 55 11,685 55	(482,751 91) (436,295,35) 1,866,831 23 1,907,093,55 1,905,535 52 1,893,849 97 1,882,164 42 1,870,478 87 1,858,793 32 1,847,107 77 1,835 427 23	Docket No 46957 base rates and amortizations effective 11/27/2017 and continue until new base-rates are approved and effective
Aug 11 Sep-17 Oct-17 11/1/17 - 11/26/17 11/27/17 - 11/30/17 Dec-17 Jan-18 Feb-18 Mar-18 Apr-18 May-18	2,754,356 93 2,754,396 93 2,387,144.01 456,241.43 3,421,810.72 3,421,810.72 3,421,810 72 3,421,810 72 3,421,810 72 3,421,810 72 3,421,810 72	(81,738 68) (81,738 68) (81,738 68) (70,840 19) 16,001 55 120,011 61 120,011 61 120,011 61 120,011 61 120,011 61	2,672,658 25 2,672,658 25 2,672,658 25 2,316,303,82 472,242,98 3,541,822 33 3,541,822 33 3,541,822 33 3,541,822 33 3,541,822 33 3,541,822 33 3,541,822 33	43,389,980 89 40,717,322 64 395,292,097,44 395,975,793,62 395,503,550 64 391,961,728 31 388,419,905 98 384,878,083 65 381,336,261 32 377,794,438 99 374,252,616 66	(32,854 44) (32,854 44) (22,854 44) (24,473 85) 2,739 24 20,544 32 20,544 32 20,544 32 20,544 32 20,544 32 20,544 32 20,544 32	(13,602 12) (13,602 12) (13,602 12) (11,788 51) (1,181.17) (8,858 77) (8,858 77) (8,858.77) (8,858.77) (8,858.77) (8,858.77) (8,858.77) (8,858.77)	(46,456,56) (46,456,56) (40,262,36) 1,558,07 11,685,55 11,685,55 11,685,55 11,685,55 11,685,55 11,685,55 11,685,55 11,685,55	(482,751 91) (436,295,35) 1,866,831 23 1,907,093,59 1,905,535 52 1,893,849 97 1,882,164 42 1,870,478 87 1,858,793 32 1,847,107 77 1,835,422 22 1,827,266 27	Docket No 46957 base rates and amortizations effective 11/27/2017 and continue until new base-rates are approved and effective
Sop-17 Oct-17 11/1/17 - 11/26/17 11/27/17 - 11/30/17 Dec-17 Jan-18 Feb-18 Mar-18 Mar-18 May-18 Jun-18	2,754,356 93 2,754,396 93 2,754,396 93 2,387,144.01 456,241.43 3,421,810.72 3,421,810 72 3,421,810 72 3,421,810 72 3,421,810 72 3,421,810 72 3,421,810 72 3,421,810 72	(81,738 68) (81,738 68) (70,840 19) 16,001 55 120,011 61 120,011 61 120,011 61 120,011 61 120,011 61 120,011 61 120,011 61 120,011 61	$\begin{array}{c} 2,672,658\ 25\\ 2,672,658\ 25\\ 2,672,658\ 25\\ 2,316,303,82\\ 472,242,98\\ 3,541,822\ 33\\ 3,541,822\ 32\\ 3,541,822\ 32\\ 3,541,822\ 32\\ 3,541,822\ 32\\ 3,541,822\ 32\\ 3,5$	43,389,980 89 40,717,322 64 398,292,097,44 395,503,550 64 391,961,728 31 388,419,905 98 384,878,083 65 381,336,261 32 377,794,438 99 374,252,616 66 370,710,744 33	(32,854 44) (32,854 44) (32,854 44) (28,473 85) 2,739 24 20,544 32 20,544 32 20,544 32 20,544 32 20,544 32 20,544 32 20,544 32 20,544 32 20,544 32	(13,602 12) (13,602 12) (13,602 12) (11,788 51) (1,181,17) (8,858 77) (8,858 77) (8,858,77) (8,858,77) (8,858,77) (8,858,77) (8,658,77) (8,658,77) (8,658,77)	(46,456,56) (46,456,56) (46,456,56) (40,262,36) 1,558,07 11,685,55 11,685,55 11,685,55 11,685,55 11,685,55 11,685,55 11,685,55	(482,751 91) (436,295,35) 1,866,851 23 1,907,093,59 1,905,535 52 1,893,849 97 1,882,164 42 1,870,478 87 1,858,793 32 1,847,107 77 1,835,422 22 1,823,736 67 1,823,736 61	Docket No 46957 base rates and amortizations effective 11/27/2017 and continue until new base-rates are approved and effective
Sop-17 Oct-17 11/1/17 - 11/26/17 11/27/17 - 11/26/17 Jan-18 Fab-18 Mar-18 May-18 Jun-18 Jun-18 Jun-18	2,754,356 93 2,754,396 93 2,754,396 93 2,387,144.01 456,241.43 3,421,810.72 3,421,810 72 3,421,810 72 3,421,810 72 3,421,810 72 3,421,810 72 3,421,810 72 3,421,810 72 3,421,810 72	(81,738 68) (81,738 68) (70,840 19) 16,001 55 120,011 61 120,011 61 120,011 61 120,011 61 120,011 61 120,011 61 120,011 61 120,011 61	$\begin{array}{c} 2.672.658\ 25\\ 2.672.658\ 25\\ 2.672.658\ 25\\ 2.316.303.82\\ 472.242.98\\ 3.541.822\ 33\\ 3.5$	43,389,980 89 40,717,322 64 398,292,097.44 395,503,550 64 391,961,728 31 384,878,083 65 381,386,261 32 377,794,438 99 374,252,616 66 370,710,794 33 367,168,972 00	(32,854 44) (32,854 44) (32,854 44) (28,473 85) 2,739 24 20,544 32 20,544 32 20,544 32 20,544 32 20,544 32 20,544 32 20,544 32 20,544 32 20,544 32	(13,602 12) (13,602 12) (13,602 12) (11,788 51) (1,181,17) (8,858 77) (8,858 77) (8,858 77) (8,858 77) (8,858 77) (8,858 77) (8,858 77) (8,858 77)	(46,456,56) (46,456,56) (46,456,56) (40,262,36) 1,558,07 11,685,55 11,685,55 11,685,55 11,685,55 11,685,55 11,685,55 11,685,55	(482,751 91) (436,295,35) 1,866,831 23 1,907,093,59 1,905,535 52 1,893,849 97 1,882,164 42 1,870,478 87 1,855,793 32 1,847,107 77 1,835,422 22 1,823,736 67 1,812,051,12 1,800,355 57	Docket No 46957 base rates and amortizations effective 11/27/2017 and continue until new base-rates are approved and effective
Sep-17 Oct-17 11/117 - 11/26/17 11/27/17 - 11/26/17 Jan-18 Feb-18 Mar-18 Mar-18 May-18 Jul-18 Jul-18 Jul-18 Aug-18 Jul-18 Sec 19	2,754,356 93 2,754,356 93 2,387,144.01 456,241.43 3,421,810.72 3,421,810.72 3,421,810.72 3,421,810.72 3,421,810.72 3,421,810.72 3,421,810.72 3,421,810.72 3,421,810.72 3,421,810.72 3,421,810.72 3,421,810.72	(81,738 66) (81,738 66) (70,840 19) 16,001 55 120,011 61 120,011 61 120,011 61 120,011 61 120,011 61 120,011 61 120,011 61 120,011 61 120,011 61	$\begin{array}{c} 2.672,658\ 25\\ 2.672,658\ 25\\ 2.672,658\ 25\\ 2.316,303,82\\ 472,242,98\\ 3.541,822\ 33\\ 3.541,822\ 32\\ 3.541,822\ 32\\ 3.541,822\ 32\\ 3.541,822\ 32\\ 3.541,822\ 32\\ 3.5$	43,389,980 89 40,717,322 64 398,292,097,44 395,503,550 64 391,961,728 31 388,419,905 98 384,878,083 65 381,336,261 32 377,794,438 99 374,252,616 66 370,710,794 33 367,168,972 00 363,627,149 67 360,085 397 34	(32,854 44) (32,854 44) (32,854 44) (28,473 85) 2,739 24 20,544 32 20,544 32	(13,602 12) (13,602 12) (13,602 12) (11,788 51) (1,181,17) (8,858 77) (8,858 77) (8,858,77) (8,858,77) (8,858,77) (8,858 77) (8,858 77) (8,858 77) (8,858 77) (8,858 77)	(46,456,56) (46,456,56) (46,456,56) (40,262,36) 1,558,07 11,685,55 11,685,55 11,685,55 11,685,55 11,685,55 11,685,55 11,685,55 11,685,55	(482,751 91) (436,295,35) 1,866,831 23 1,907,093,55 1,905,535 52 1,893,849 97 1,882,164 42 1,870,478 87 1,858,793 32 1,847,707 77 1,835,422 22 1,823,736 67 1,812,051.12 1,800,355.57 1,788,680,02	Docket No 46957 base rates and amortizations effective 11/27/2017 and continue until new base-rates are approved and effective
Sop-17 Oct-17 I1/1/17 - 11/26/17 11/27/17 - 11/26/17 Dec-17 Jan-18 Feb-18 Mar-18 Mar-18 Jun-18 Jun-18 Jul-18 Aug-18 Sop-18 Oct-18	2,754,356 93 2,754,396 93 2,784,396 93 2,387,144.01 456,241.43 3,421,810.72 3,421,810 72 3,421,810 72	(81,738 68) (81,738 68) (70,840 19) 16,001 55 120,011 61 120,011 61 120,011 61 120,011 61 120,011 61 120,011 61 120,011 61 120,011 61 120,011 61 120,011 61	$\begin{array}{c} 2.672.658\ 25\\ 2.672.658\ 25\\ 2.672.658\ 25\\ 2.316.303.82\\ 472.242.98\\ 3.541.822\ 33\\ 3.5$	43,389,980 89 40,717,322 64 398,292,097,44 395,503,550 64 391,961,728 31 388,419,905 98 384,878,083 65 381,336,261 32 377,794,438 99 374,252,616 66 370,710,794 33 367,168,972 00 363,627,149 67 360,085,327 34	(32,854 44) (32,854 44) (32,854 44) (28,473 85) 2,739 24 20,544 32 20,544 32	(13,602 12) (13,602 12) (13,602 12) (11,788 51) (1,181,17) (8,858 77) (8,858 77) (8,858,77) (8,858,77) (8,858 77) (8,858 77) (8,858 77) (8,858 77) (8,858 77) (8,858 77)	(46,456,56) (46,456,56) (46,456,56) (46,456,56) (46,456,55) 11,685,55 11,685,55 11,685,55 11,685,55 11,685,55 11,685,55 11,685,55 11,685,55 11,685,55	(482,751 91) (436,295,35) 1,866,831 23 1,907,093,58 1,905,535 52 1,893,849 97 1,882,164 42 1,870,478 87 1,858,793 32 1,847,107 77 1,835,422 22 1,823,736 67 1,812,551 12 1,800,365,57 1,788,680,02 1,776,994 47	Docket No 46957 base rates and amortizations effective 11/27/2017 and continue until new base-rates are approved and effective
Sop-17 Oct-17 11/1/17 - 11/26/17 11/27/17 - 11/26/17 Jan-18 Fab-18 Mar-18 May-18 Jun-18 Jun-18 Jun-18 Jun-18 Sop-18 Oct-18 Nou-18	2,734,356 93 2,754,396 93 2,754,396 93 2,387,144.01 456,241.43 3,421,810 72 3,421,810 72	(81,738 66) (81,738 66) (81,738 66) (70,840 19) 16,001 55 120,011 61 120,011 61 120,011 61 120,011 61 120,011 61 120,011 61 120,011 61 120,011 61 120,011 61 120,011 61	$\begin{array}{c} 2.672.658\ 25\\ 2.672.658\ 25\\ 2.672.658\ 25\\ 2.316.303.82\\ 472.242.98\\ 3.541.822\ 33\\ 3.5$	43,389,980 89 40,717,322 64 398,292,097,44 395,503,550 64 391,961,728 31 384,479,903 65 384,878,083 65 384,878,083 65 381,336,261 32 377,794,438 99 374,252,816 66 370,710,794 33 367,168,972 00 363,627,149 67 360,085,327 34 353,001 682 68	(32,854 44) (32,854 44) (32,854 44) (28,473 85) 2,739 24 20,544 32 20,544 32	(13,602 12) (13,602 12) (11,788 51) (1,181,17) (8,858 77) (8,858 77)	(46,456,56) (46,456,56) (40,456,56) (40,262,36) 1,558,07 11,685,55 11,685,55 11,685,55 11,685,55 11,685,55 11,685,55 11,685,55 11,685,55 11,685,55 11,685,55	(482,751 91) (436,295,35) 1,866,831 23 1,907,093,58 1,905,535 52 1,893,849 97 1,882,164 42 1,870,478 87 1,858,793 32 1,847,107 77 1,835,873 32 1,847,107 77 1,835,422 22 1,823,736 67 1,812,051,12 1,800,365,57 1,788,680,02 1,776,994 47 1,765,308 92	Docket No 46957 base rates and amortizations effective 11/27/2017 and continue until new base-rates are approved and effective
Sep-17 Oct-17 11/117 - 11/26/17 11/27/17 - 11/26/17 Jan-18 Feb-18 Mar-18 Mar-18 May-18 Jul-18 May-18 Jul-18 Aug-18 Jul-18 Sep-18 Oct-18 Nov-18 Nov-18	2,754,356 93 2,754,356 93 2,784,356 93 2,387,144.01 456,241.43 3,421,810.72 3,421,810 72 3,421,810 72	(81,738 68) (81,738 66) (81,738 66) (70,840 19) 16,001 55 120,011 61 120,011 61 120,011 61 120,011 61 120,011 61 120,011 61 120,011 61 120,011 61 120,011 61 120,011 61	$\begin{array}{c} 2.672.658\ 25\\ 2.672.658\ 25\\ 2.672.658\ 25\\ 2.316.303.82\\ 472.242.98\\ 3.541.822\ 33\\ 3.641.822\ 33\\ 3.5$	43,389,980 89 40,717,322 64 396,292,097,44 395,503,550 64 391,961,728 31 386,419,905 98 384,878,083 65 381,336,261 32 377,794,438 99 374,252,616 66 370,710,794 33 374,252,616 66 370,710,794 33 367,168,972 00 363,627,149 67 360,085,327 34 356,543,505 01 353,001,682 68	(32,854 44) (32,854 44) (32,854 44) (28,473 85) 2,739 24 20,544 32 20,544 32	(13,602 12) (13,602 12) (11,602 12) (11,788 51) (1,181,17) (8,858 77) (8,858 77)	(46,456,56) (46,456,56) (46,456,56) (40,262,36) 1,558,07 11,685,55 11,685,55 11,685,55 11,685,55 11,685,55 11,685,55 11,685,55 11,685,55 11,685,55 11,685,55	(482,751 91) (436,295,35) 1,866,831 23 1,907,093,55 1,905,535 52 1,893,849 97 1,882,164 42 1,870,478 87 1,858,793 32 1,847,107 77 1,835,422 22 1,823,736 67 1,812,051,12 1,800,365,57 1,788,680,02 1,776,994 47 1,765,308 92 1,753,623 37	Docket No 46957 base rates and amortizations effective 11/27/2017 and continue until new base-rates are approved and effective
Sop-17 Oct-17 I1//17 - 11/26/17 11/27/17 - 11/26/17 Jan-18 Feb-18 Mar-18 Mar-18 Jul-18 Jul-18 Jul-18 Aug-18 Sep-18 Oct-18 Nov-18 Dec-18 Dec-18	2,754,356 93 2,754,356 93 2,754,356 93 2,387,144.01 456,241.43 3,421,810.72 3,421,810.72 3,421,810.72 3,421,810.72 3,421,810.72 3,421,810.72 3,421,810.72 3,421,810.72 3,421,810.72 3,421,810.72 3,421,810.72 3,421,810.72 3,421,810.72 3,421,810.72 3,421,810.72 3,421,810.72 3,421,810.72 3,421,810.72	(81,738 68) (81,738 68) (70,840 19) 16,001 55 120,011 61 120,011 61	$\begin{array}{c} 2.672.658\ 25\\ 2.672.658\ 25\\ 2.672.658\ 25\\ 2.316.303.82\\ 472.242.98\\ 3.541.822\ 33\\ 3.541.822\ 32\\ 3.541.822\ 32\\ 3.541.822\ 32\\ 3.541.822\ 32\\ 3.541.822\ 32\\ 3.5$	43,389,980 89 40,717,322 64 398,292,097,44 395,503,550 64 391,961,728 31 388,419,905 98 384,878,083 65 381,336,261 32 377,794,438 99 374,252,616 66 370,710,794 33 367,168,972 00 363,627,149 67 360,085,327 34 355,543,555 01 353,001,682 68 345,918,038 02	(32,854 44) (32,854 44) (32,854 44) (28,473 85) 2,739 24 20,544 32 20,544 32	(13,602 12) (13,602 12) (11,788 51) (1,181.17) (8,858 77) (8,858 77)	(46,456.56) (46,456.56) (40,262.36) 1,558.07 11,685.55 11,685.55 11,685.55 11,685.55 11,685.55 11,685.55 11,685.55 11,685.55 11,685.55 11,685.55 11,685.55 11,685.55 11,685.55 11,685.55	(482,751 91) (436,295,35) 1,866,831 23 1,907,093,58 1,905,535 52 1,893,849 97 1,882,164 42 1,870,478 87 1,858,793 32 1,847,107 77 1,835,422 22 1,823,736 67 1,812,051 12 1,800,365,57 1,788,680,02 1,776,508 92 1,753,623 37 1,741,937,82	Docket No 46957 base rates and amortizations effective 11/27/2017 and continue until new base-rates are approved and effective
Sop-17 Oct-17 11/1/17 - 11/26/17 11/27/17 - 11/26/17 Jan-18 Fab-18 Mar-18 May-18 Jun-18 Jun-18 Jun-18 Jun-18 Jun-18 Sop-16 Oct-18 Nov-18 Dec-18 Jan-19 Feb-19	2,754,356 93 2,754,396 93 2,754,396 93 2,387,144.01 456,241.43 3,421,810 72 3,421,810 72	(81,738 68) (81,738 68) (70,840 19) 16,001 55 120,011 61 120,011 61	$\begin{array}{c} 2,672,658\ 25\\ 2,672,658\ 25\\ 2,672,658\ 25\\ 2,316,303,82\\ 472,242,98\\ 3,541,822\ 33\\ 3,541,822\ 32\\ 3,541,822\ 32\\ 3,541,822\ 32\\ 3,541,822\ 32\\ 3,5$	43,389,980 89 40,717,322 64 398,292,097,44 395,503,550 64 391,961,728 31 388,419,905 98 384,878,083 65 381,336,261 32 377,794,438 99 374,252,616 66 370,710,794 33 367,168,972 00 363,627,149 67 360,085,327 34 365,543,505 01 353,001,682 68 349,459,660 35 345,918,038 02 342,376,215 69	(32,854 44) (32,854 44) (32,854 44) (28,473 85) 2,739 24 20,544 32 20,544 32	(13,602 12) (13,602 12) (13,602 12) (11,788 51) (1,181.17) (8,858 77) (8,858 77)	(46,456,56) (46,456,56) (46,456,56) (40,262,36) 1,558,07 11,685,55 11,685,55 11,685,55 11,685,55 11,685,55 11,685,55 11,685,55 11,685,55 11,685,55 11,685,55 11,685,55 11,685,55	(482,751 91) (436,295,35) 1,866,831 23 1,907,093,58 1,905,535 52 1,893,849 97 1,882,164 42 1,870,478 87 1,858,793 32 1,847,107 77 1,835,842 22 1,823,736 67 1,812,051,12 1,800,365,57 1,788,680,02 1,776,994 47 1,765,308 92 1,753,623 37 1,741,937,82 1,730,252 27	Docket No 46957 base rates and amortizations effective 11/27/2017 and continue until new base-rates are approved and effective
Sep-17 Oct-17 U1/117 - 11/26/17 11/27/17 - 11/26/17 Jan-18 Feb-18 Mar-18 May-18 Jul-18 May-18 Jul-18 May-18 Jul-18 Aug-18 Sep-18 Oct-18 Nov-18 Nov-18 Dec-18 Jan-19 Feb-19 Mac.19	2,754,356 93 2,754,356 93 2,784,356 93 2,387,144.01 456,241.43 3,421,810.72 3,421,810 72 3,421,810 72	(81,738 68) (81,738 66) (81,738 66) (70,840 19) 16,001 55 120,011 61 120,011 61	$\begin{array}{c} 2.672.658\ 25\\ 2.672.658\ 25\\ 2.672.658\ 25\\ 2.316.303.82\\ 472.242.98\\ 3.541.822\ 33\\ 3.641.822\ 33\\ 3.5$	43,389,980 89 40,717,322 64 398,292,097,44 395,503,550 64 391,961,728 31 388,419,905 98 384,878,083 65 381,336,261 32 377,794,438 99 374,252,616 66 370,710,794 33 374,252,616 66 370,710,794 33 363,627,149 67 360,085,327 34 365,543,505 01 353,001,662 68 349,459,860 35 345,918,038 02 342,376,215 69 388,834,393 36	(32,854 44) (32,854 44) (32,854 44) (28,473 85) 2,739 24 20,544 32 20,544 32	(13,602 12) (13,602 12) (13,602 12) (11,788 51) (1,181,17) (8,858 77) (8,858 77)	(46,456,56) (46,456,56) (40,262,36) 1,558,07 11,685,55 11,685,55 11,685,55 11,685,55 11,685,55 11,685,55 11,685,55 11,685,55 11,685,55 11,685,55 11,685,55 11,685,55 11,685,55 11,685,55 11,685,55	(482,751 91) (436,295,35) 1,866,831 23 1,907,093,58 1,905,535 52 1,893,849 97 1,882,164 42 1,870,478 87 1,858,793 32 1,847,107 77 1,835,422 22 1,823,736 67 1,812,051,12 1,800,365,57 1,778,984 47 1,776,994 53 1,730,252 27 1,718,566 72	Docket No 46957 base rates and amortizations effective 11/27/2017 and continue until new base-rates are approved and effective
Sep-17 Oct-17 11/1/17 - 11/26/17 11/27/17 - 11/26/17 Jan-18 Mar-18 May-18 May-18 Apr-18 Apr-18 Aug-18 Aug-18 Sep-18 Oct-18 Dec-18 Jan-19 Feb-19 Mar-19	2,734,356 93 2,754,396 93 2,754,396 93 2,387,144.01 456,241.43 3,421,810.72 3,421,810 72 3,421,810 72	(81,738 68) (81,738 68) (70,840 19) 16,001 55 120,011 61 120,011 61	$\begin{array}{c} 2.672.658\ 25\\ 2.672.658\ 25\\ 2.672.658\ 25\\ 2.316.303.82\\ 472.242.98\\ 3.541.822\ 33\\ 3.5$	43,389,980 89 40,717,322 64 398,292,097,44 395,503,550 64 391,961,728 31 388,419,905 98 384,878,083 65 381,336,261 32 377,794,438 99 374,252,616 66 370,710,794 33 367,168,972 00 363,627,149 67 360,085,327 34 355,745,355 01 353,001,682 68 345,918,038 02 344,59,660 35 345,918,038 02 342,376,215 69 336,824,393 36	(32,854 44) (32,854 44) (32,854 44) (28,473 85) 2,739 24 20,544 32 20,544 32	(13,602 12) (13,602 12) (11,788 51) (1,181,17) (8,858 77) (8,858 77)	(46,456,56) (46,456,56) (40,262,36) 1,558,07 11,685,55 11,685,55 11,685,55 11,685,55 11,685,55 11,685,55 11,685,55 11,685,55 11,685,55 11,685,55 11,685,55 11,685,55 11,685,55 11,685,55 11,685,55 11,685,55 11,685,55 11,685,55 11,685,55	(482,751 91) (436,295,35) 1,866,831 23 1,907,093,58 1,905,535 52 1,893,849 97 1,882,164 42 1,870,478 87 1,858,793 32 1,847,107 77 1,835,422 22 1,823,736 67 1,812,051,12 1,800,365,57 1,788,680,02 1,776,984 47 1,765,308 92 1,753,623 37 1,741,8566 72 1,718,656 72 1,718,656 72 1,706,881,17	Docket No 46957 base rates and amortizations effective 11/27/2017 and continue until new base-rates are approved and effective
Sop-17 Oct-17 11/1/17 - 11/26/17 11/27/17 - 11/26/17 Jan-18 Feb-18 Mar-18 Jun-18 Jun-18 Jun-18 Jun-18 Jun-18 Jun-18 Aug-16 Oct-18 Doct-18 Doct-18 Jeb-19 Mar-19 Apr-19 Mar-19	2,734,356 93 2,754,396 93 2,754,396 93 2,387,144.01 456,241.43 3,421,810 72 3,421,810 72 3,421,810,72 3,421,810,72 3,421,810,72 3,421,810,72 3,421,810,72 3,421,810,72 3,421,810,72 3,421,810,72	(81,738 68) (81,738 68) (70,840 19) 16,001 55 120,011 61 120,011 61	$\begin{array}{c} 2,672,658\ 25\\ 2,672,658\ 25\\ 2,672,658\ 25\\ 2,316,303,82\\ 472,242,98\\ 3,541,822\ 33\\ 3,5$	43,389,980 89 40,717,322 64 398,292,097,44 395,503,550 64 391,961,728 31 388,419,905 98 384,878,083 65 381,336,261 32 377,794,438 99 374,252,616 66 370,710,794 33 367,166,972 00 363,627,149 67 360,085,327 34 365,543,505 01 353,001,682 60 354,259,660 35 349,459,660 35 349,459,660 35 342,376,215 69 338,834,393 36 335,292,571,03	(32,854 44) (32,854 44) (32,854 44) (28,473 85) 2,739 24 20,544 32 20,544 32	(13,602 12) (13,602 12) (13,602 12) (11,788 51) (1,181.17) (8,858 77) (8,858 77)	(46,456,56) (46,456,56) (40,422,36) 1,558,07 11,685,55	(482,751 91) (436,295,35) 1,866,831 23 1,907,93,55 1,905,535 52 1,893,849 97 1,882,164 42 1,870,478 67 1,858,793 32 1,847,107 77 1,835,422 22 1,823,736 67 1,812,051.12 1,800,365,57 1,786,860,02 1,776,984 47 1,776,508 92 1,753,623 37 1,741,937,82 1,730,625,27 1,718,566 72 1,706,881,17 1,695,657	Docket No 46957 base rates and amortizations effective 11/27/2017 and continue until new base-rates are approved and effective
Sep-17 Oct-17 U1/117 - 11/26/17 11/27/17 - 11/26/17 Jan-18 Feb-18 Mar-18 Apr-18 Jul-18 Aug-18 Jul-18 Aug-18 Jul-18 Aug-18 Sep-18 Oct-18 Nov-18 Dec-18 Jan-19 Feb-19 Mar-19 Mar-19 May-19 Jun-19	2,754,356 93 2,754,356 93 2,784,356 93 2,387,144.01 456,241.43 3,421,810.72 3,421,810 72 3,421,810 72	(81,738 68) (81,738 66) (70,840 19) 16,001 55 120,011 61 120,011 6	$\begin{array}{c} 2.672.658\ 25\\ 2.672.658\ 25\\ 2.672.658\ 25\\ 2.316.303.82\\ 472.242.98\\ 3.541.822\ 33\\ 3.641.822\ 33\\ 3.5$	43,389,980 89 40,717,322 64 398,292,097,44 395,503,550 64 391,961,728 31 388,419,905 98 384,878,083 65 381,336,261 32 377,794,438 99 374,252,616 66 370,710,794 33 374,252,616 66 370,710,794 33 374,252,616 66 370,710,794 33 374,252,616 66 370,710,794 33 374,252,616 66 370,710,794 33 374,252,616 66 370,710,794 37 360,085,327 34 365,543,505 01 353,001,662 68 349,459,860 35 345,918,038 02 342,376,215 69 336,834,393 36 335,292,571,03 331,750,748 70	(32,854 44) (32,854 44) (32,854 44) (28,473 85) 2,739 24 20,544 32 20,544 32	(13,602 12) (13,602 12) (11,602 12) (11,788 51) (1,181,17) (8,858 77) (8,858 77)	(46,456,56) (46,456,56) (40,262,36) 1,558,07 11,685,55	(482,751 91) (436,295,35) 1,866,831 23 1,907,093,58 1,905,535 52 1,893,849 97 1,882,164 42 1,870,478 87 1,858,793 32 1,847,478 87 1,858,793 32 1,847,107 77 1,835,422 22 1,823,736 67 1,716,984 47 1,776,994 52 1,753,865 72 1,741,937,82 1,730,252 27 1,716,866 72 1,706,881,17 1,695,195,62	Docket No 46957 base rates and amortizations effective 11/27/2017 and continue until new base-rates are approved and effective
Sop-17 Oct-17 11/1/17 - 11/26/17 11/27/17 - 11/26/17 Jan-18 Mar-18 Mar-18 Apr-18 May-18 Jun-18 Jun-18 Jun-18 Jun-18 Jun-18 Sop-16 Oct-18 Dec-18 Jan-19 Feb-19 Mar-19 May-19 Jun-19 Jun-19	2,754,356 93 2,754,356 93 2,754,356 93 2,754,356 93 2,387,144.01 456,241.43 3,421,810.72 3,421,810 72 3,421,810 72 3,421,810,72 3,421,810,72 3,421,810,72 3,421,810,72 3,421,810,72 3,421,810,72 3,421,810,72 3,421,810,72 3,421,810,72 3,421,810,72 3,421,810,72	(81,738 68) (81,738 66) (70,840 19) 16,001 55 120,011 61 120,011 6	$\begin{array}{c} 2.672.658\ 25\\ 2.672.658\ 25\\ 2.672.658\ 25\\ 2.316.303.82\\ 472.242.98\\ 3.541.822\ 33\\ 3.5$	43,389,980 89 40,717,322 64 398,292,097,44 395,503,550 64 391,961,728 31 388,419,905 98 384,878,083 65 381,336,261 32 377,794,438 99 374,252,616 66 370,710,794 33 367,168,972 00 363,627,149 67 360,085,327 34 365,543,505 01 353,001,682 68 345,918,055 01 353,001,682 68 345,918,058 02 345,918,058 02 345,918,058 02 345,918,058 02 345,918,058 02 345,918,058 02 345,918,058 02 345,918,058 02 345,918,058 02 345,918,058 02 355,292,571,03 331,760,748 70 324,667,104 04	(32,854 44) (32,854 44) (32,854 44) (28,473 85) 2,739 24 20,544 32 20,544 32	(13,602 12) (13,602 12) (11,602 12) (11,788 51) (1,181,17) (8,858 77) (8,858 77)	(46,456,56) (46,456,56) (40,262,36) 1,558,07 11,685,55	$(482,751\ 91)\\(436,295,35)\\1,866,831\ 23\\1,907,093,58\\1,905,535\ 52\\1,803,849\ 97\\1,882,164\ 42\\1,870,478\ 87\\1,858,793\ 32\\1,847,107\ 77\\1,835,422\ 22\\1,823,736\ 67\\1,812,051,12\\1,800,365,57\\1,788,680,02\\1,776,984\ 47\\1,765,308\ 92\\1,773,0252\ 27\\1,718,566\ 72\\1,703,252\ 21\\1,768,881,17\\1,695,195,62\\1,683,510\ 07\\1,671,824\ 52\\1,683,510\ 07\\1,683,510\ 07\\1,671,825\\1,683,510\ 07\\1,683,510\$	Docket No 46957 base rates and amortizations effective 11/27/2017 and continue until new base-rates are approved and effective
Sop-17 Oct-17 11/1/17 - 11/26/17 11/27/17 - 11/26/17 Jan-18 Feb-18 Mar-18 Jun-18 Jun-18 Jun-18 Jun-18 Jun-18 Jun-18 Jun-18 Sop-18 Oct-18 Doct-18 Doct-18 Jan-19 Feb-19 Mar-19 Mar-19 Jun-19 Jun-19 Jun-19 Jun-19 Jun-19 Jun-19 Jun-19	2,754,356 93 2,754,356 93 2,754,356 93 2,387,144.01 456,241.43 3,421,810 72 3,421,810 72 3,421,810.72 3,421,810.72 3,421,810.72 3,421,810.72 3,421,810.72 3,421,810.72 3,421,810.72 3,421,810.72 3,421,810.72 3,421,810.72 3,421,810.72 3,421,810.72	(81,738 68) (81,738 68) (70,840 19) 16,001 55 120,011 61 120,011 6	$\begin{array}{c} 2,672,658\ 25\\ 2,672,658\ 25\\ 2,672,658\ 25\\ 2,316,303,82\\ 472,242,98\\ 3,541,822\ 33\\ 3,5$	43,389,980 89 40,717,322 64 398,292,097,44 395,503,550 64 391,961,728 31 388,419,905 98 384,870,083 65 381,336,261 32 377,794,438 99 374,252,816 66 370,710,794 33 367,168,372 00 363,627,149 67 360,085,327 34 366,086,372 00 363,627,149 67 360,085,327 34 366,085,327 34 366,085,327 34 366,085,327 34 366,085,261 35 349,459,860 35 349,459,860 35 342,376,215 69 338,834,393 36 335,292,571,03 328,208,926 37 324,667,104 04 321,125,281 71	(32,854 44) (32,854 44) (32,854 44) (28,473 85) 2,739 24 20,544 32 20,544 32	(13,602 12) (13,602 12) (13,602 12) (11,788 51) (1,181.17) (8,858 77) (8,858 77)	(46,456,56) (46,456,56) (40,426,36) (40,262,36) 1,558,07 11,685,5511,685,55 11,685,55 11,685,55 11,685,55 11,685,5511,685,55 11,685,55 11,685,5511,685,55 11,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,55	(482,751 91) (436,295,35) 1,866,831 23 1,907,093,55 1,893,849 97 1,882,164 42 1,870,478 87 1,858,793 32 1,847,107 77 1,835,422 22 1,823,736 67 1,812,051.12 1,800,365,57 1,786,860,02 1,776,984 47 1,765,308 92 1,753,623 37 1,741,937,82 1,730,525 27 1,718,566 72 1,706,881.17 1,693,510 07 1,671,824 52 1,663,510 07	Docket No 46957 base rates and amortizations effective 11/27/2017 and continue until new base-rates are approved and effective
Sop-17 Oct-17 U1/1/17 - 11/26/17 11/27/17 - 11/26/17 Jan-18 Føb-18 Mar-18 Jul-18 Jul-18 Jul-18 Aug-18 Jul-18 Aug-18 Jul-18 Aug-18 Sop-18 Oct-18 Nov-18 Dec-18 Jan-19 Føb-19 Mar-19 Mar-19 Mar-19 Jul-19 Jul-19 Jul-19 Sop-19	2,754,356 93 2,754,356 93 2,784,356 93 2,387,144.01 456,241.43 3,421,810.72 3,421,810.72 3,421,810 72 3,421,810 72 3,421,810.72 3,421,810.72 3,421,810.72 3,421,810.72 3,421,810.72 3,421,810.72 3,421,810.72 3,421,810.72 3,421,810.72 3,421,810.72 3,421,810.72	(81,738 68) (81,738 66) (70,840 19) 16,001 55 120,011 61 120,011 61	$\begin{array}{c} 2,672,658\ 25\\ 2,672,658\ 25\\ 2,672,658\ 25\\ 2,316,303,82\\ 472,242,98\\ 3,541,822\ 33\\ 3,5$	43,389,980 89 40,717,322 64 398,292,097,44 395,503,550 64 391,961,728 31 388,419,905 98 384,878,083 65 381,336,261 32 377,794,438 99 374,252,616 66 370,710,794 33 374,7252,616 66 370,710,794 33 374,252,616 66 370,710,794 33 374,252,616 66 370,710,794 33 374,252,616 66 370,710,794 33 374,252,616 66 370,710,794 37 360,085,327 34 365,543,505 01 353,001,662 68 349,459,860 35 345,918,038 02 342,376,215 69 336,834,393 36 335,292,571,03 331,750,748 70 328,208,226 37 324,667,104 04 321,125,221 71 317,583,459 38	(32,854 44) (32,854 44) (32,854 44) (28,473 85) 2,739 24 20,544 32 20,544 32	(13,602 12) (13,602 12) (13,602 12) (11,788 51) (1,181,17) (8,858 77) (8,858	(46,456,56) (46,456,56) (40,262,36) 1,558,07 11,685,5511,685,55 11,685,55 11,685,5511,685,55 11,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,55 11,685,5511,685,55 11,685,55 11,685,5511,685,55 11,685,55 11,685,5511,685,55 11,685,55 11,685,5511,685,55 11,685,55 11,685,5511,685,55 11,685,55 11,685,5511,685,55 11,685,5511,585 11,585,5511,5	(482,751 91) (436,295,35) 1,866,831 23 1,907,093,58 1,905,535 52 1,893,849 97 1,882,164 42 1,870,478 87 1,858,793 32 1,847,107 77 1,835,422 22 1,823,736 67 1,812,651,12 1,810,365,57 1,768,984 0,02 1,776,994 47 1,765,308 92 1,753,623 37 1,741,937,82 1,730,252 27 1,716,866 72 1,706,881,17 1,955,195,62 1,663,510 07 1,671,824 52 1,660,389 97 1,648,453 42	Docket No 46957 base rates and amortizations effective 11/27/2017 and continue until new base-rates are approved and effective
Sop-17 Oct-17 11/1/17 - 11/26/17 11/27/17 - 11/26/17 Jan-18 Mar-18 Mar-18 May-18 Jun-18 Jun-18 Jun-18 Jun-18 Jun-18 Jun-18 Sop-16 Oct-18 Dec-18 Jan-19 Mar-19 Mar-19 Mar-19 Jun-19 Jun-19 Jun-19 Jun-19 Sep-19 Oct-19	2,754,356 93 2,754,356 93 2,754,356 93 2,754,356 93 2,387,144.01 456,241.43 3,421,810 72 3,421,810 72 3,421,810,72	(81,738 68) (81,738 68) (70,840 19) 16,001 55 120,011 61 120,011 6	$\begin{array}{c} 2.672.658\ 25\\ 2.672.658\ 25\\ 2.672.658\ 25\\ 2.316.303.82\\ 472.242.98\\ 3.541.822\ 33\\ 3.5$	43,389,980 89 40,717,322 64 398,292,097,44 395,503,550 64 391,961,728 31 388,419,905 98 384,878,083 65 381,336,261 32 377,794,438 99 374,252,616 66 370,710,794 33 367,168,972 00 363,627,149 67 360,085,327 34 365,543,505 01 353,001,682 68 345,918,038 02 344,59,660 35 353,001,682 68 345,918,038 02 344,59,660 35 335,292,571,03 331,760,748 70 328,208,926 37 324,667,104 04 321,125,281 71 317,568,459 38 314,041,637,05 67	(32,854 44) (32,854 44) (32,854 44) (28,473 85) 2,739 24 20,544 32 20,544 32	(13,602 12) (13,602 12) (11,602 12) (11,788 51) (1,181.17) (8,858 77) (8,858	(46,456,56) (46,456,56) (40,252,36) 1,558,07 11,685,5511,685,55 11,685,55 11,685,5511,685,55 11,685,55 11,685,5511,585,55 1	(482,751 91) (436,295,35) 1,866,831 23 1,907,093,58 1,905,535 52 1,803,849 97 1,882,164 42 1,870,478 87 1,858,793 32 1,847,107 77 1,835,422 22 1,823,736 67 1,812,051,12 1,800,365,57 1,788,680,02 1,776,984 47 1,765,308 92 1,773,0252 27 1,718,566 72 1,706,881,17 1,695,195,62 1,663,510 07 1,671,824 52 1,663,510 07 1,671,824 53 42 1,636,767 87	Docket No 46957 base rates and amortizations effective 11/27/2017 and continue until new base-rates are approved and effective
Sop-17 Oct-17 U1/1/17 - 11/26/17 11/27/17 - 11/26/17 Jan-18 Fob-18 Mar-18 Jul-18 Jul-18 Aug-18 Aug-18 Aug-18 Aug-18 Oct-18 Nov-18 Dec-18 Jan-19 Mar-19 Mar-19 May-19 Jun-19 Jun-19 Jun-19 Jun-19 Jun-19 Sep-19 Oct-19 Nov-19	2,754,356 93 2,754,366 93 2,754,366 93 2,387,144.01 456,241.43 3,421,810.72 3,421,810 72 3,421,810 72 3,421,810.72 3,421,8	(81,738 68) (81,738 68) (70,840 19) 16,001 55 120,011 61 120,011 6	$\begin{array}{c} 2,672,658\ 25\\ 2,672,658\ 25\\ 2,672,658\ 25\\ 2,316,303,82\\ 472,242,98\\ 3,541,822\ 33\\ 3,5$	43,389,980 89 40,717,322 64 398,292,097,44 395,503,550 64 391,961,728 31 388,419,905 98 344,878,083 65 381,336,261 32 377,794,438 99 374,252,616 86 370,710,794 33 367,166,972 00 363,627,149 67 360,085,327 34 365,543,505 01 353,001,662 68 349,459,860 35 349,459,860 35 349,459,860 35 345,918,038 02 342,376,215 69 336,324,393 36 335,292,571,03 331,760,748 70 328,208,926 37 324,667,104 87 324,667,104 87 324,667,104 87 324,667,104 87 324,667,104 87 314,047,870,55 314,047,870,55 314,049,814,725	(32,854 44) (32,854 44) (32,854 44) (28,473 85) 2,739 24 20,544 32 20,544 32	(13,602 12) (13,602 12) (13,602 12) (11,788 51) (1,181.17) (8,858 77) (8,858	(46,456,56) (46,456,56) (40,426,36) (40,262,36) 1,558,07 11,685,5511,685,55 11,685,55 11,685,5511,685,55 11,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,585,55	(482,751 91) (436,295,35) 1,866,831 23 1,907,093,55 1,805,535 52 1,893,849 97 1,882,164 42 1,870,478 87 1,858,793 32 1,847,107 77 1,835,422 22 1,823,736 67 1,812,051.12 1,800,365,57 1,786,860,02 1,776,994 47 1,765,308 92 1,753,623 37 1,741,937,82 1,730,252 27 1,718,565 62 1,683,510 07 1,671,824 52 1,660,138 97 1,648,453 42 1,632,676 87 1,625,082 32	Docket No 46957 base rates and amortizations effective 11/27/2017 and continue until new base-rates are approved and effective
Sep-17 Oct-17 U1/1/17 - 11/26/17 11/27/17 - 11/26/17 Jan-18 Feb-18 Mar-18 Apr-18 Jul-18 Jul-18 Aug-18 Jul-18 Aug-18 Sep-18 Oct-18 Nov-18 Dec-18 Jan-19 Feb-19 Mar-19 Mar-19 Mar-19 Mar-19 Jul-19 Jul-19 Jul-19 Jul-19 Jul-19 Sep-19 Oct-19 Nov-19 Dec-79	2,754,356 93 2,754,356 93 2,754,356 93 2,387,144.01 456,241.43 3,421,810.72	(81,738 68) (81,738 66) (70,840 19) 16,001 55 120,011 61 120,011 6	$\begin{array}{c} 2,672,658\ 25\\ 2,672,658\ 25\\ 2,672,658\ 25\\ 2,316,303,82\\ 472,242,98\\ 3,541,822\ 33\\ 3,5$	43,389,980 89 40,717,322 64 398,292,097,44 395,503,550 64 391,961,728 31 386,419,905 98 384,878,083 65 381,336,261 32 377,794,438 99 374,252,616 66 370,710,794 33 377,794,438 99 374,252,616 66 370,710,794 33 376,7168,972 00 363,627,149 67 360,085,327 34 365,543,505 01 353,001,682 68 349,459,860 35 345,918,038 02 342,376,215 69 336,834,393 36 335,292,571,03 331,750,748 70 324,667,104 04 221,125,281 71 317,563,459 38 314,041,637,05 310,499,814,72 306,957,922 39	(32,854 44) (32,854 44) (32,854 44) (28,473 85) 2,739 24 20,544 32 20,544 32	(13,602 12) (13,602 12) (13,602 12) (11,788 51) (1,181,17) (8,858 77) (8,858	(46,456,56) (46,456,56) (40,262,36) 1,558,07 11,685,5511,685,55 11,685,55 11,685,5511,685,55 11,685,55 11,685,5511,685,55 11,685,55 11,685,5511,685,55 11,685,55 11,685,5511,685,55 11,685,55 11,685,5511,685,55 11,685,55 11,685,5511,685,55 11,685,55 11,685,5511,685,55 11,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,585,55 1	(482,751 91) (436,295,35) 1,866,831 23 1,907,093,58 1,905,535 52 1,893,849 97 1,882,164 42 1,870,478 87 1,858,793 32 1,847,107 77 1,835,422 22 1,823,736 67 1,812,651,12 1,810,365,57 1,788,680,02 1,776,994 47 1,765,308 92 1,775,3623 37 1,741,937,82 1,730,252 27 1,716,566 72 1,706,881,17 1,695,195,62 1,667,1856 72 1,676,851,10 1,671,824 52 1,666,767 87 1,625,602 32 1,613,396 77 6,611 41 27	Docket No 46957 base rates and amortizations effective 11/27/2017 and continue until new base-rates are approved and effective
Sop-17 Oct-17 11/1/17 - 11/26/17 11/27/17 - 11/26/17 Jan-18 Mar-18 Mar-18 May-18 Jun-18 Jun-18 Jun-18 Jun-18 Jun-18 Jun-18 May-18 Sep-16 Oct-18 Oct-18 Dec-18 Jan-19 Apr-19 Mar-19 Mar-19 Jun-19 Jun-19 Jun-19 Jun-19 Sep-19 Oct-19 Nov-19 Dec-19 Dec-19 Jan-20	2,754,356 93 2,754,356 93 2,754,356 93 2,754,356 93 2,387,144.01 456,241.43 3,421,810 72 3,421,810 72 3,421,8	(81,738 68) (81,738 68) (70,840 19) 16,001 55 120,011 61 120,011 6	$\begin{array}{c} 2,672,658\ 25\\ 2,672,658\ 25\\ 2,672,658\ 25\\ 2,316,303,82\\ 472,242,98\\ 3,541,822\ 33\\ 3,5$	43,389,980 89 40,717,322 64 398,292,097,44 395,503,550 64 391,961,728 31 388,419,905 98 384,878,083 65 381,336,261 32 377,794,438 99 374,252,616 66 370,710,744 33 367,168,972 00 363,627,149 67 360,085,327 34 365,543,505 01 353,001,682 68 349,459,660 35 345,918,038 02 342,376,215 69 338,834,333 36 355,292,571,03 331,750,748 70 328,208,226 37 324,667,104 04 321,125,281 71 317,563,459 38 314,041,637,05 310,499,814,72 30,6927,992 39 303,416,170 06	(32,854 44) (32,854 44) (32,854 44) (28,873 85) 2,739 24 20,544 32 20,544 32	(13,602 12) (13,602 12) (13,602 12) (11,788 51) (1,181.17) (8,858 77) (8,858	(46,456,56) (46,456,56) (46,456,56) (40,262,36) 1,558,07 11,685,5511,685,55 11,685,55 11,685,5511,685,55 11,685,55 11,685,5511,685,55	(482,751 91) (436,295,35) 1,866,831 23 1,907,093,58 1,905,535 52 1,803,849 97 1,882,164 42 1,870,478 87 1,858,793 32 1,847,107 77 1,835,422 22 1,823,736 67 1,812,051,12 1,800,365,57 1,788,680,02 1,776,984 47 1,765,308 92 1,773,0252 27 1,718,566 72 1,708,881,17 1,695,195,62 1,663,510 07 1,671,824 52 1,663,510 07 1,671,824 53 1,663,6767 87 1,625,082 32 1,613,136 77 1,601,711,22 2,500,025 67	Docket No 46957 base rates and amortizations effective 11/27/2017 and continue until new base-rates are approved and effective
Sop-17 Oct-17 U1/1/17 - 11/26/17 11/27/17 - 11/26/17 Jan-18 Fob-18 Mar-18 May-18 Jul-18 Aug-18 Aug-18 Aug-18 Aug-18 Aug-18 Oct-18 Doct-18 Doct-18 Doct-18 Doct-18 Doct-18 Doct-18 Jan-19 Apr-19 May-19 Jun-19 Jul-19 Jul-19 Jul-19 Sop-19 Doct-10 Doct-10 Doct-10 Doct-10 Doct	2,754,356 93 2,754,356 93 2,754,356 93 2,784,356 93 2,387,144.01 456,241.43 3,421,810 72 3,421,810 72 3,421,8	(81,738 68) (81,738 66) (81,738 66) (70,840 19) 16,001 55 120,011 61 120,011	$\begin{array}{c} 2,672,658\ 25\\ 2,672,658\ 25\\ 2,672,658\ 25\\ 2,316,303,82\\ 472,242,98\\ 3,541,822\ 33\\ 3,5$	43,389,980 89 40,717,322 64 398,292,097,44 395,503,550 64 391,961,728 31 388,419,905 98 384,878,083 65 381,336,261 32 377,794,438 99 374,252,616 66 370,710,794 33 367,168,972 00 363,627,149 67 360,085,327 34 365,543,505 01 353,001,662 68 349,459,860 35 345,918,038 02 342,376,215 69 348,4393 36 353,292,571,03 31,760,748 70 328,208,926 37 324,667,104 04 321,125,281 71 317,583,459 38 314,041,872,05 310,499,814,72 305,957,992 39 334,347,70	(32,854 44) (32,854 44) (32,854 44) (28,473 85) 2,739 24 20,544 32 20,544 32	(13,602 12) (13,602 12) (11,602 12) (11,788 51) (1,181.17) (8,858 77) (8,858	(46,456,56) (46,456,56) (40,426,36) (40,262,36) 1,558,07 11,685,5511,685,55 11,685,55 11,685,5511,685,55 11,685,55 11,685,5511,685,55 11,685,55 11,685,5511,685,55 11,685,55 11,685,5511,685,55 11,685,55 11,685,5511,685,55 11,685,55 11,685,5511,685,55 11,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,55 11,685,5511,685,55 11,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,5511,685,55 11,685,55	(482,751 91) (436,295,35) 1,866,831 23 1,907,093,55 1,905,535 52 1,893,849 97 1,882,164 42 1,870,478 87 1,858,793 32 1,847,107 77 1,835,422 22 1,823,736 67 1,812,051,12 1,800,365,57 1,788,860,02 1,776,994 47 1,765,308 92 1,756,523 37 1,741,937,82 1,730,252 27 1,718,566 72 1,706,881,17 1,683,510 07 1,671,824 52 1,663,510 07 1,671,824 52 1,663,510 07 1,671,824 52 1,664,453 42 1,625,082 32 1,613,396 77 1,601,711,22 1,590,025,67 87	Docket No 46957 base rates and amortizations effective 11/27/2017 and continue until new base-rates are approved and effective
Sep-17 Oct-17 11/1/17 - 11/26/17 11/27/17 - 11/26/17 Jan-18 Mar-18 May-18 May-18 May-18 Jun-18 Jul-18 Aug-18 Aug-18 Sep-18 Oct-18 Dec-18 Jan-19 Mar-19 Mar-19 Mar-19 Jul-19 Aug-19 Jul-19 Aug-19 Jul-19 Aug-19 Jul-19 Sep-19 Oct-19 Dec-19 Dec-19 Jan-20 Feb-20 Mar-20	2,734,356 93 2,754,396 93 2,754,396 93 2,784,396 93 2,387,144.01 456,241.43 3,421,810.72 3,421,810 72 3,421,810 72 3,421,8	(81,738 68) (81,738 68) (70,840 19) 16,001 55 120,011 61 120,011 6	$\begin{array}{c} 2,672,658\ 25\\ 2,672,658\ 25\\ 2,672,658\ 25\\ 2,316,303,82\\ 472,242,98\\ 3,541,822\ 33\\ 3,5$	43,389,980 89 40,717,322 64 398,292,097,44 395,5975,793,62 395,503,550 64 391,961,728 31 386,419,905 98 384,878,083 65 381,336,261 32 377,794,438 99 374,252,616 66 370,710,794 33 367,168,972 00 363,627,149 67 360,085,327 34 365,543,505 01 353,001,682 68 345,918,038 02 345,918,038 02 346,918,038 02 346,038 02 346	(32,854 44) (32,854 44) (32,854 44) (28,473 85) 2,739 24 20,544 32 20,544 32	(13,602 12) (13,602 12) (13,602 12) (11,788 51) (1,181,17) (8,858 77) (8,858	(46,456,56) (46,456,56) (40,262,36) 1,558,07 11,685,5511,685,55	(482,751 91) (436,295,35) 1,866,831 23 1,907,093,58 1,905,535 52 1,893,849 97 1,882,164 42 1,870,478 87 1,858,793 32 1,847,107 77 1,835,422 22 1,823,736 67 1,812,051,12 1,800,365,57 1,788,680,02 1,776,308 92 1,753,623 37 1,741,937,82 1,730,252 27 1,716,566 72 1,706,881,17 1,695,195,62 2,1660,313 97 1,646,453 42 1,636,767 87 1,623,77 1,667,783 42 1,636,767 87 1,623,77 1,601,711,22 1,570,025,67 1,578,340 12	Docket No 46957 base rates and amortizations effective 11/27/2017 and continue until new base-rates are approved and effective
Sop-17 Oct-17 11/1/17 - 11/26/17 11/27/17 - 11/26/17 Jan-18 Fab-18 Mar-18 Jun-18 Jun-18 Jun-18 Jun-18 Jun-18 Jun-18 May-18 Oct-18 Dec-18 Jan-19 Aug-19 Apr-19 Mar-19 Jun-19 Jun-19 Jun-19 Jun-19 Jun-19 Jun-19 Jun-19 Jun-19 Jun-19 Jun-19 Jun-19 Jun-19 Jun-19 Jun-19 Jun-19 Jun-20 Feb-20 Fab-20 Fab-20 Fab-20 Fab-20 Fab-20 Mar-20 Apr-2	2,734,356 93 2,754,396 93 2,754,396 93 2,784,396 93 2,387,144.01 456,241.43 3,421,810 72 3,421,810 72 3,421,8	(81,738 68) (81,738 68) (70,840 19) 16,001 55 120,011 61 120,011 6	$\begin{array}{c} 2,672,658\ 25\\ 2,672,658\ 25\\ 2,672,658\ 25\\ 2,316,303,82\\ 472,242,98\\ 3,541,822\ 33\\ 3,5$	43,389,980 89 40,717,322 64 398,292,097,44 395,503,550 64 391,961,728 31 388,419,905 98 384,878,083 65 381,336,261 32 377,794,438 99 374,252,616 66 370,710,794 33 367,166,972 00 363,627,149 67 360,085,327 34 366,543,505 01 353,001,682 66 349,459,660 35 349,459,660 35 349,459,660 35 349,459,660 35 342,376,215 69 388,834,393 36 335,292,571,03 314,204,215 69 338,834,393 36 335,292,571,04 04 321,125,281 71 317,583,459 28 314,041,1837,05 310,499,814,72 306,957,923 30 303,416,170 06 299,874,347 73	(32,854 44) (32,854 44) (32,854 44) (28,473 85) 2,739 24 20,544 32 20,544 32	(13,602 12) (13,602 12) (13,602 12) (11,788 51) (1,181.17) (8,858 77) (8,858	(46,456,56) (46,456,56) (46,456,56) (40,222,36) 1,558,07 11,685,5511,685,55 11,685,55 11,685,5511,685,55 11,685,55 11,685,5511,685,55	(482,751 91) (436,295,35) 1,866,831 23 1,907,93,55 1,893,849 97 1,882,164 42 1,870,478 87 1,858,793 32 1,847,107 77 1,835,422 22 1,823,736 67 1,812,051.12 1,800,365,57 1,788,680,02 1,776,984 47 1,776,508 92 1,753,623 37 1,741,937,82 1,730,252 27 1,718,566 72 1,706,881,17 1,695,195,62 1,660,138 97 1,648,453 42 1,632,676 87 1,662,508 32 1,613,767 87 1,601,711,22 1,590,025,67	Docket No 46957 base rates and amortizations effective 11/27/2017 and continue until new base-rates are approved and effective
Sop-17 Oct-17 I1/1/17 - 11/26/17 11/27/17 - 11/26/17 Jan-18 Fob-18 Mar-18 Mar-18 Jul-18 Jul-18 Aug-18 Aug-18 Aug-18 Aug-18 Oct-18 Doct-18 Doct-18 Doct-18 Doct-18 Doct-18 Doct-18 Doct-18 Doct-18 Jan-19 Apr-19 Mar-19 May-19 Jul-19 Jul-19 Jul-19 Jul-19 Jul-19 Doct-19 Doct-19 Doct-19 Doct-19 Doct-19 Doct-19 Doct-19 Doct-19 Doct-19 Doct-19 Doct-20 Mar-20 May-20 May-20 May-20 May-20 May-20 May-20	2,734,356 93 2,754,356 93 2,754,356 93 2,784,356 93 2,387,144.01 456,241.43 3,421,810 72 3,421,810 72 3,421,8	(81,738 68) (81,738 66) (81,738 66) (70,840 19) 16,001 55 120,011 61 120,011	$\begin{array}{c} 2,672,658\ 25\\ 2,672,658\ 25\\ 2,672,658\ 25\\ 2,316,303,82\\ 472,242,98\\ 3,541,822\ 33\\ 3,5$	43,389,980 89 40,717,322 64 398,292,097,44 395,503,550 64 391,961,728 31 388,419,905 98 384,878,083 65 381,336,261 32 377,794,438 99 374,252,616 66 370,710,794 33 374,252,616 66 370,710,794 33 374,252,616 66 370,710,794 33 374,252,616 66 370,710,794 33 374,252,616 65 345,918,038 52 345,918,038 52 345,918,	(32,854 44) (32,854 44) (32,854 44) (28,473 85) 2,739 24 20,544 32 20,544 32	(13,602 12) (13,602 12) (13,602 12) (11,788 51) (1,181,17) (8,858 77) (8,858	(46,456,56) (46,456,56) (40,426,36) (40,262,36) 1,558,07 11,685,5511,685,55	(482,751 91) (436,295,35) 1,866,831 23 1,907,093,58 1,905,535 52 1,893,849 97 1,882,164 42 1,870,478 87 1,858,793 32 1,847,107 77 1,835,422 22 1,823,736 67 1,812,051,12 1,800,365,57 1,788,680,02 1,776,994 47 1,765,308 92 1,756,294 47 1,765,308 92 1,756,823 37 1,741,937,82 1,706,881,17 1,683,510 07 1,671,824 52 2,660,138 97 1,648,453 42 1,625,082 32 1,613,396 77 1,613,396 77 1,678,340 12 1,554,969,02	Docket No 46957 base rates and amortizations effective 11/27/2017 and continue until new base-rates are approved and effective
Sep-17 Oct-17 11/1/17 - 11/26/17 11/27/17 - 11/26/17 Jan-18 Mar-18 Mar-18 May-18 Jun-18 Jun-18 Jun-18 Jun-18 Jun-18 Jun-18 Dec-18 Nov-18 Dec-18 Jan-19 Jan-19 Mar-19 Mar-19 Jun-19 Jun-19 Jun-19 Jun-19 Jun-19 Jun-19 Sep-19 Oct-19 Dec-19 Jan-20 Feb-20 Mar-20 Apr-20 Jun-2	2,734,356 93 2,754,396 93 2,754,396 93 2,784,396 93 2,387,144.01 456,241.43 3,421,810 72 3,421,810 72 3,421,8	(81,738 68) (81,738 66) (70,840 19) 16,001 55 120,011 61 120,011 6	$\begin{array}{l} 2,672,658\ 25\\ 2,672,658\ 25\\ 2,672,658\ 25\\ 2,316,303,82\\ 472,242,98\\ 3,541,822\ 33\\ 3,5$	43,389,980 89 40,717,322 64 398,292,097,44 395,503,550 64 391,961,728 31 386,419,905 98 384,878,083 65 381,336,261 32 377,794,438 99 374,252,616 66 370,710,794 33 377,794,438 99 374,252,616 66 370,710,794 33 367,168,372 00 363,627,149 67 360,085,327 34 365,543,505 01 353,001,682 68 345,918,038 02 345,918,038 02 345,917,710,710 351,750,748 70 303,416,170 02 399,874,347 73 296,332,525,40 292,790,703 07 298,248,880 74 285,707,058 41	(32,854 44) (32,854 44) (32,854 44) (28,473 85) 2,739 24 20,544 32 20,544 32	(13,602 12) (13,602 12) (13,602 12) (11,788 51) (1,181,17) (8,858 77) (8,858	(46,456,56) (46,456,56) (40,262,36) 1,558,07 11,685,5511,685,55	(482,751 91) (436,295,35) 1,866,831 23 1,907,093,58 1,905,535 52 1,893,849 97 1,882,164 42 1,870,478 87 1,858,793 32 1,847,107 77 1,835,422 22 1,823,736 67 1,812,051,12 1,800,365,57 1,788,680,02 1,776,308 92 1,753,623 37 1,741,937,82 1,730,252 27 1,716,566 72 1,706,881,17 1,695,195,62 2,1660,313 97 1,646,453 42 1,636,767 87 1,625,77 1,578,340 12 1,578,340 12 1,554,969 02 1,554,969 02 1,554,969 02	Docket No 46957 base rates and amortizations effective 11/27/2017 and continue until new base-rates are approved and effective

WP/II-E-4.1.1 SIR Approved Page 2 of 4 ×.

#### 2022 Rate Case Oncor Electric Delivery Company LLC Self Insurance Reserve Reg Asset - Approved Most Recently in Docket No 46957 Sponsor W. Alan Ledbetter

Aug 20 1	3 431 910 73	120 011 61	3 541 922 33	278 622 413 75	20 544 32	(8 859 77)	11 685 55	1 519 912 37	1					
Aug-20	3,421,01072	120,011 61	3,341,022 33	276,023,413,73	20,544 32	(8,858,77)	11,000 00	1,519,512,57						
Sep-20	3,421,010.72	120,011 01	3,541,022.55	273,001,391.42	20,544.52	(0,050,77)	11,005 55	1 496 541 27		Docket N	o A6957 amortizatio	one Nov 27, 2017 - Dec 31	2021	
001-20	3,421,01072	120,011 01	3,541,022 33	2/1,009,009 09	20,544 52	(0,03077)	11,005 55	1,450,341.27	-	DICT	DicT lability	TRAN	TDAM U-L.UM	
Nov-20	3,421,810.72	120,011 61	3,541,822 33	267,997,946.76	20,544 32	(8,858 77)	11,685 55	1,484,855 /2	-	DIST property	E POC EZO 44	1 000 410 02	(425 260 00)	
Dec-20	3,421,810.72	120,011 61	3,541,822 33	264,456,124.43	20,544.32	(8,858.77)	11,685 55	1,473,170 17		168,124,966.71	5,695,570 44	1,009,410 92	(435,260 90)	
Jan-21	3,421,810.72	120,011.61	3,541,822 33	260,914,302.10	20,544.32	(8,858.77)	11,080 00	1,401,404.02						
Feb-21	3,421,810 72	120,011 61	3,541,822 33	257,372,47977	20,544 32	(0,000 77)	11,005 00	1,449,799 07						
Mar-21	3,421,810 72	120,011 61	3,541,822 33	253,830,657,44	20,544 32	(0,000.77)	11,000.00	1 436,113 52						
Apr-21	3,421,810 72	120,011 61	3,541,822 33	250,288,835 11	20,544.32	(0,000.77)	11,000 00	1,420,427 97						
May-21	3,421,81072	120,011.61	3,541,622.33	240,747,012 70	20,544 32	(0,050.77)	11,005 05	1,414,742.42						
Jun-21	3,421,810.72	120,011 61	3,341,622 33	243,205,190 45	20,544 32	(0,000 77)	11,003.55	1 204 274 22	ł					
JUI-21	3,421,01072	120,011 01	3,341,022 33	239,003,300 12	20,544.32	(0,050.77)	11,000 00	1 370 695 77	1					
Aug-21	3,421,81072	120,011 61	3,341,022 33	230,121,34575	20,544 32	(0,050.77)	11 695 55	1 368 000 22						
Sep-21	3,421,010.72	120,011 61	3,541,622,33	232,575,723 48	20,544 32	(8,858,77)	11 685 55	1 356 314 67		Dock	et Nos. 38929 & 469	57 amortizations 2012-20	021	
001-21	3,421,01072	120,011 01	0,041,022.00	225,037,001 10	20,544.32	(0,000,77)	11 695 55	1 244 620 12	l ·	DIST property	DIST liability	TRAN property	TRAN liability	
Nov-21	3,421,810 72	120,011 61	3,541,822 33	225,496,078.80	20,544 32	(0,050 //)	11,000 00	1,344,029 12	ļ .	202 210 905 92	104.022.65	(1 319 873 73)	(1 300 107 81)	
Dec-21	3,421,810 72	120,011 61	3,541,822 33	221,954,256 47	20,544 32	(8,858.77)	11,685 55	1,332,943.57		363,319,693 62	104,022.05	(1,310,073.73)		
Jan-22	3,421,810 72	120,011 61	3,541,822.33	218,412,434.14	20,544 32	(8,858.77)	11,685 55	1,321,258 02	Note Docket No 4695/ am	ionizations shown wi	a continue as long as	DOCKELNO, 40957 Dase	12103 210 11 011001.	
Feb-22	3,421,810.72	120,011.61	3,541,822 33	214,870,611 81	20,544 32	(8,858.77)	11,685 55	1,309,572 47		Dockot No. 44	OF7 amortization fo	r 2021 test year to adjust	ad tact year	
Mar-22	3,421,810 72	120,011 61	3,541,822 33	211,328,789 48	20,544 32	(8,85877)	11,605 55	1,297,000.92		DUCKET NO. 40	DICT In Lulin	TDAN anonati	TRAM links	Total
Apr-22	3,421,810 72	120,011.61	3,541,822 33	207,786,967 15	20,544 32	(8,858 77)	11,685 55	1,286,201 37		Dist property	UIST habinty	TRAN property	(AOC OOC OA)	10 642 004 50
May-22	3,421,810 72	120,011 61	3,541,822 33	204,245,144 82	20,544 32	(8,858 77)	11,685 55	1,274,515 82	Test year amortization	41,061,728 64	1,440,139 32	246,531 84	(106,305 24)	42,642,094 56
Jun-22	3,421,810 72	120,011 61	3,541,822 33	200,703,322.49	20,544 32	(8,858 77)	11,685,55	1,262,830.27	Requested amortization	42,512,241 35	1,878,609 94	362,383.18	(95,996 47)	2 015 245 44
Jul-22	3,421,810 72	120,011 61	3,541,822 33	197,161,500.16	20,544 32	(8,858 77)	11,685 55	1,251,144.72	K&M adjustment	1,450,512 /1	438,470 62	116,053.34	10,300 77	2,010,040 44
Aug-22	3,421,810 72	120,011 61	3,541,822 33	193,619,677.83	20,544 32	(8,858 77)	11,685 55	1,239,459 17		A9240000 EC 065	A9250000 EC 065	A9240000 EC 065	A9250000 EC 005	Phi advictment # 44
Sep-22	3,421,810 72	120,011 61	3,541,822 33	190,077,855 50	20,544.32	(8,858 77)	11,685 55	1,227,773 62		1 ECC ECC OF	160 Liability A925		r.	advi adjustinont # 44
Oct-22	3,421,810 72	120,011.61	3,541,822 33	186,536,033 17	20,544.32	(8,858.77)	11,685 55	1,216,088 07		1,000,000 00	440,773 33			
Nov-22	3,421,810 72	120,011 61	3,541,822.33	182,994,210 84	20,544 32	(8,858.77)	11,685.55	1,204,402.52		00 604969/	07 702030/	7 40814%	2 29707%	
Dec-22	3,421,810.72	120,011 61	3,541,822 33	179,452,388 51	20,544.32	(8,858 77)	11,685 55	1,192,716,97	[	92 09100%	51 1025370	7 400 14 78	2 25/07/10	
Jan-23	3,421,810.72	120,011.61	3,541,822 33	175,910,566 18	20,544 32	(8,858.77)	11,000 00	1,101,031.42						
Feb-23	3,421,810 72	120,011 61	3,541,822 33	1/2,368,743 85	20,544 32	(0,000.77)	11,000 00	1,103,340 07						
Mar-23	3,421,810 72	120,011.61	3,541,822 33	168,826,921 52	20,544.32	(0,000.77)	11,005 55	1 146 074 77	1					
Apr-23	3,421,810 72	120,011 61	3,541,822,33	165,285,099.19	20,544 32	(8,858.77)	11,000 00	1 134 290 22	1					
May-23	3,421,810 72	120,011.61	3,541,822 33	161,743,276 86	20,544 32	(0,030.77)	11,085 55	1 122 603 67	1					
Jun-23	3,421,810 72	120,011 61	3,541,822 33	158,201,454 53	20,544.52	(0,050.77)	11,003,05	1 110 918 12						
Jul-23	3,421,810 72	120,011 61	3,541,822 33	154,659,632.20	20,544.32	(0,000 77)	11 685 55	1 099 232 57						
Aug-23	3,421,810 72	120,011 61	3,541,822 33	101,117,009 07 1	20,544 32	(8,859,77)	11 685 55	1 087 547 02						
Sep-23	3,421,810 72	120,011 61	3,541,822 33	147,575,907 54	20,544 32	(8,858,77)	11 685 55	1 075 861 47						
Oct-23	3,421,810 72	120,011 01	3,341,022 33	144,034,103 21	20,544 32	(8,858,77)	11 685 55	1 064 175 92	1					
Nov-23	3,421,810 72	120,011 61	3,541,022 33	136 950 520 55	20,544.32	(8 858 77)	11,685 55	1.052.490.37						
Dec-23	3,421,010.72	120,011.01	3,541,022,33	133 408 698 22	20 544 32	(8,858 77)	11.685 55	1.040.804 82						
Jan-24	3,421,01072	120,011 61	3 541 822 33	129 866 875 89	20,544,32	(8.858 77)	11,685 55	1,029,119 27						
Feb-24	3,421,010 72	120,011 61	3 541 822 33	126 375 053 56	20,544 32	(8,858 77)	11,685 55	1,017,433.72						
Mar-24	3,421,010 72	120,011 61	3 541 822 33	122,783,231 23	20.544 32	(8,858 77)	11,685.55	1,005,748 17						
May-24	3 421 810 72	120 011 61	3 541 822.33	119,241,408 90	20.544.32	(8,858.77)	11,685.55	994,062.62	1					
In1-24	3 421 810 72	120.011.61	3.541.822 33	115,699,586 57	20,544.32	(8,858.77)	11,685 55	982,377 07						
Aun-24	3 421 810 72	120.011 61	3.541.822 33	112 157 764 24	20,544 32	(8,858,77)	11,685.55	970,691.52	1					
Sep-24	3.421.810.72	120.011 61	3,541,822.33	108,615,941 91	20,544 32	(8,858 77)	11,685.55	959,005 97						
Oct-24	3,421,810 72	120,011 61	3,541,822.33	105,074,119 58	20,544.32	(8,858 77)	11,685.55	947,320.42	[					
Nov-24	3,421,810 72	120,011.61	3,541,822 33	101,532,297 25	20,544 32	(8,858.77)	11,685 55	935,634.87						
Dec-24	3,421,810 72	120,011.61	3,541,822 33	97,990,474 92	20,544 32	(8,858 77)	11,685 55	923,949.32						
Jan-25	3,421,810.72	120,011 61	3,541,822 33	94,448,652 59	20,544 32	(8,858,77)	11,685 55	912,263.77						
Feb-25	3,421,810.72	120,011 61	3,541,822 33	90,906,830 26	20,544 32	(8,858 77)	11,685 55	900,578 22						
Mar-25	3,421,810 72	120,011 61	3,541,822 33	87,365,007.93	20,544 32	(8,858 77)	11,685 55	888,892 67						
Apr-25	3,421,810 72	120,011 61	3,541,822 33	83,823,185 60	20,544.32	(8,858.77)	11,685 55	877,207 12						
May-25	3,421,810.72	120,011 61	3,541,822 33	80,281,363 27	20,544 32	(8,858.77)	11,685.55	865,521.57	1					
Jun-25	3,421,810 72	120,011 61	3,541,822 33	76,739,540.94	20,544 32	(8,858 77)	11,685 55	853,836.02						
Jul-25	3,421,810 72	120,011 61	3,541,822 33	73,197,718 61	20,544.32	(8,858 77)	11,685 55	842,150 47						
Aug-25	3,421,810.72	120,011 61	3,541,822 33	69,655,896.28	20,544.32	(8,858 77)	11,685 55	830,464 92						
Sep-25	3,421,810 72	120,011.61	3,541,822 33	66,114,073 95	20,544.32	(8,858 77)	11,000 00	010,11931	. ]					
Oct-25	3,421,810.72	120,011 61	3,541,822.33	62,572,251.62	20,544 32	(8,858.//)	11,000 00	705 400 07						
Nov-25	3,421,810.72	120,011 61	3,541,822.33	59,030,429 29	20,544 32	(0,000 / /)	11,000,00	783 797 79						
Dec-25	3,421,810.72	120,011 61	3,541,822.33	55,488,606.96	20,044.32	(0,000.//) (8 PE9 77)	11 695 55	772 637 17						
Jan-26	3,421,810.72	120,011 61	3,541,822.33	51,946,784.63	20,344 32	(0,000 / / )	11 685 55	760 351 62						
Feb-26	3,421,810.72	120,011 61	3,541,622.33	40,404,902.30	20,044.02	(8,859,77)	11,685,55	748 666 07						
Mar-26	3,421,810.72	120,011 61	3,541,022.33	44,003,139 9/	20,044.02	(8 858 77)	11,685,55	736,980 52						
Apr-26	3,421,810.72	120,011.01	3,341,022 33	37 770 405 21	20,544 32	(8,858 77)	11,685 55	725 294 97						
May-26	3,421,610 /2	120,011.01	3 541 822 23	34 237 672 08	20 544 32	(8,858 77)	11.685 55	713.609.42						
JUR-20	3 421,010.72	120,011 61	3 541 822 33	30 695 850 65	20,544 32	(8.858.77)	11,685 55	701,923 87	· •					
Jui-20	0,421,01012	.20,011.01	0,011,042.00	2010001000100					•					

WP/II-E-4.1.1 SIR Approved Page 3 of 4

#### WP/II-E-4.1.1 SIR Approved Page 4 of 4

#### 2022 Rate Case Oncor Electric Dellvery Company LLC Self Insurance Reserve Reg Asset - Approved Most Recently in Docket No. 46957 Sponsor: W Alan Ledbetter

3,421,810 72	120,011 61	3,541,822 33	27,154,028 32	20,544 32	(8,858 77)	11,685 55	690,238 32
3,421,810 72	120,011 61	3,541,822 33	23,612,205.99	20,544 32	(8,858 77)	11,685 55	678,552 77
3,421,810 72	120,011 61	3,541,822 33	20,070,383.66	20,544 32	(8,858 77)	11,685 55	666,867 22
3,421,810 72	120,011 61	3,541,822 33	16,528,561 33	20,544 32	(8,858 77)	11,685 55	655,181 67
3,421,810 72	120,011 61	3,541,822 33	12,986,739 00	20,544.32	(8,858.77)	11,685.55	643,496.12
3,421,810 72	120,011.61	3,541,822 33	9,444,916 67	20,544 32	(8,858 77)	11,685 55	631,810 57
3,421,810 72	120,011 61	3,541,822 33	5,903,094 34	20,544 32	(8,858 77)	11,685 55	620,125 02
3,421,810 72	120,011 61	3,541,822 33	2,361,272 01	20,544 32	(8,858 77)	11,685 55	608,439 47
3,421,810 72	120,011 61	3,541,822 33	(1,180,550 32)	20,544.32	(8,858.77)	11,685 55	596,753.92
3,421,810 72	120,011 61	3,541,822 33	(4,722,372 65)	20,544.32	(8,858.77)	11,685 55	585,068 37
3,421,810 72	120,011 61	3,541,822 33	(8,264,194 98)	20,544 32	(8,858 77)	11,685 55	573,382 82
3,421,810 72	120,011 61	3,541,822 33	(11,806,017 31)	20,544 32	(8,858 77)	11,685 55	561,697 27
3,421,810 72	120,011 61	3,541,822 33	(15,347,839 64)	20,544 32	(8,858 77)	11,685.55	550,011 72
3,421,810 72	120,011 61	3,541,822 33	(18,889,661.97)	20,544 32	(8,858 77)	11,685 55	538,326 17
3,421,810 72	120,011 61	3,541,822 33	(22,431,484 30)	20,544.32	(8,858.77)	11,685 55	526,640 62
3,421,810 72	120,011 61	3,541,822 33	(25,973,306 63)	20,544 32	(8,858 77)	11,685 55	514,955 07
3,421,810 72	120,011 61	3,541,822.33	(29,515,128 96)	20,544 32	(8,858 77)	11,685 55	503,269 52
	3,421,810 72 3,421,810 72	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$

#### 2022 Rate Case

Oncor Electric Delivery Company LLC

Over-Refund of Tax Refund Factor (Docket No. 48325 Rider TRF & Rider WTRF - DLS & XFMR) For Test Year Ending December 31, 2021

Sponsor: W. Alan Ledbetter

						Regulatory for t Bala	/ Liability Account 2541351 he Tax Refund Factor ance at Dec 31, 2021	F To b	equested recovery
Project	Project Description	Docket No. 48325, Item No.	128, Page 13 of 28	Refun	ds to-date incl. cancel/rebills	Over-refun	a to be collected/(refunded)		Over 5 years
FITRLDIS	REG LIABILITY FOR FIT CHANGE	\$	(57,776,722)						
FITDSGRD	Guardlights FIT Ref			\$	136,108 92				
FITDSLPR	Primary grtr 10kw FIT Ref	\$	(2,804,446)	\$	3,206,979.02	\$	402,533.02	\$	80,506 60
FITDSLSC	Secondary gtr 10kw FIT Ref	\$	(20,632,346)	\$	21,971,226 47	\$	1,338,880.47	\$	267,776.09
FITDSMTL	Metered SL FIT Ref			\$	21,018 90				
FITDSRES	Residential FIT Ref	\$	(31,765,366)	\$	32,455,092.38	\$	689,726.38	\$	137,945.28
FITDSSPR	Primary less 10kw FIT Ref	\$	(18,590)	\$	18,992.67	\$	402.67	\$	80 53
FITDSSSC	Secondary less 10kw FIT Ref	\$	(1,431,657)	\$	1,364,443.00	\$	(67,214.00)	\$	(13,442.80)
FITDSSUB	Primary Substation FIT Ref	\$	(206,308)	\$	225,329.21	\$	19,021.21	\$	3,804.24
FITDSTRN	Transmission FIT Ref	\$	(129,003)	\$	128,944.39	\$	(58 61)	\$	(11.72)
FITDSUML	Unmetered SL FIT Ref	\$	(619,407)	\$	442,404.98	\$	(19,874.20)	\$	(3,974.84)
FITRFDLS	FIT RATE CHANGE REFUND	\$	(139,285)	\$	141,996.68	\$	2,711.68	\$	542.34
FITRFXFM	FIT RATE CHANGE REFUND XFMR	\$	(30,314)	\$	32,488.67	\$	2,174.67	\$	434.93
	Total	\$	(57,776,722)	\$	60,145,025.29	\$	2,368,303.29	\$	473,660 66 K&M adjustment #39
Three project	s reflect lighting class								Account 928

Three projects reflect lighting class

## WP/Sch II-E-4.1.1 Wholesale Distribution Substation Service Reg Asset Page 1 of 3

## 2022 Rate Case Oncor Electric Delivery Company LLC Regulatory Asset - Wholesale Distribution Substation Service (Account 1824300) For Test Year Ending December 31, 2021 Sponsor: W. Alan Ledbetter

WDSS received from Sharyland Utilities by month/year:		
Nov-17	\$	621,058.01
Dec-17	\$	978,758 00
Jan-18	\$	1,004,966 90
Feb-18	\$	1,066,735.96
Mar-18	\$	1,099,749 04
Apr-18	\$	1,133,321.60
May-18	\$	1,196,979.23
Jun-18	\$	1,246,328.12
Jul-18	\$	1,267,172 71
Aug-18	\$	1,291,921.28
Sep-18	\$	1,323,224 91
Oct-18	\$	1,391,374.13
Nov-18	\$	1,420,460.53
Dec-18	\$	1,429,188.18
Jan-19	\$	1,440,053.67
Feb-19	\$	1,452,719.96
Mar-19	\$	1,468,132.91
Apr-19	\$	1,492,527.88
Apr-19 portion payable to NTU after acquisition	\$	(1,426,951 61) Was NTX A/R at InfraREIT acq; Oncor paid NTU after acquisition of NTU
May-19	\$	828,996.33
May-19 portion payable to NTU after acquisition	\$	(763,420 33) Was NTX A/R at InfraREIT acq, Oncor paid NTU after acquisition of NTU
Jun-19	\$	65,576 00
Jul-19	\$	63,049 75
Aug-19	\$	59,338 77
Sep-19	\$	57,916 24
Oct-19	\$	57,916 24
Nov-19	\$	40,313.61
Total payments to Sharyland Utilities	\$	21,307,408 02 Docket Nos 46957 and 47649
WDSS received from Oncor NTU by month/year		
Apr-19	\$	1,426,951.61
May-19	\$	1,395,251 24
Jun-19	\$	1,488,410.38
Jul-19	\$	1,510,769.42
Aug-19	\$	1,587,220 30
Sep-19	\$	1,598,070 70
Oct-19	\$	1,610,894 06
Nov-19	\$	1,660,834 06
Dec-19	Ş	1,685,454.70
Jan-20	\$	1,700,131 34

## WP/Sch II-E-4.1.1 Wholesale Distribution Substation Service Reg Asset Page 2 of 3

## 2022 Rate Case Oncor Electric Delivery Company LLC Regulatory Asset - Wholesale Distribution Substation Service (Account 1824300) For Test Year Ending December 31, 2021 Sponsor: W. Alan Ledbetter

Feb-20	\$ 1,731,955.66
Mar-20	\$ 1,731,955.66
Apr-20	\$ 1,733,279.18
May-20	\$ 1,734,261.26
Jun-20	\$ 1,751,324 46
Jul-20	\$ 1,766,344.30
Aug-20	\$ 1,762,502 22
Sep-20	\$ 1,750,933 74
Oct-20	\$ 1,751,972.14
Nov-20	\$ 1,717,092 46
Dec-20	\$ 1,712,373 90
Jan-21	\$ 1,699,026.06
Feb-21	\$ 1,699,026.06
Mar-21	\$ 1,731,603.66
Apr-21	\$ 1,699,696.62
May-21	\$ 1,721,307 66
Jun-21	\$ 1,776,972.94
Jul-21	\$ 1,743,270 70
Aug-21	\$ 1,737,760.14
Sep-21	\$ 1,748,137.10
Oct-21	\$ 1,748,137.10
Nov-21	\$ 1,746,202.86
Dec-21	\$ 1,736,387.34
Total payments to Oncor NTU	\$ 55,595,511 03 Docket No. 48929
Proceeds from AEP related to Oncor's sale of distribution facilities in Mission and McAllen to AEP	\$ (1,445,018.06) Docket No. 49402 (portion of WDSS regulatory asset for Mission & McAllen)
Refund from SPS (including interest)	\$ (190,831.62) Addressed in Docket No 47469, item No 69
Total WDSS regulatory asset at 12-31-2021	\$ 75,267,069 37 K&M O&M adjustment #33
Requested annual recovery in this docket over 5 years	\$ 15,053,413 87 Account 5880000, EC 065

.

## Docket No. 46957 Order

Finding of Fact No. 53

Oncor is authorized to establish a regulatory asset to capture the amounts Oncor pays to Sharyland under Sharyland's Wholesale Distribution Substation Service Tariff Ordering Paragraph No. 14

Oncor is authorized to establish a regulatory asset to capture the amounts Oncor pays to Sharyland under Sharyland's Wholesale Distribution Substation Service Tariff. However, Oncor is not presently authorized to recover those amounts. Oncor is permitted to seek recovery of those amounts in a future proceeding.

2022 Rate Case Oncor Electric Delivery Company LLC Regulatory Asset - Wholesale Distribution Substation Service (Account 1824300) For Test Year Ending December 31, 2021 Sponsor: W. Alan Ledbetter

#### Docket No. 48929 Order

#### Finding of Fact No. 73 Approval to Create a Regulatory Asset

The signatories agreed that Oncor can establish a regulatory asset to capture the amounts Oncor pays to the North Texas Utility under Sharyland Utilities, L.P.'s wholesale-distribution-substation-service tariff until rates are established to recover those costs. 74. It is reasonable for Oncor to establish a regulatory asset to capture the amounts Oncor pays to the North Texas Utility under Sharyland Utilities, L.P.'s wholesale-distribution-substation-service tariff until rates are established to recover these costs.

Ordering Paragraph No 10

Oncor may establish a regulatory asset to capture the amounts that Oncor pays to the North Texas Utility under Sharyland Utilities, L.P 's wholesale-distribution-substation-service tariff until rates are established to recover those costs

#### Timing as a result of these PUCT orders

Oncor-Sharyland exchange closed November 9, 2017 (Docket No 47469) Sharyland's retail delivery customers transitioned/became retail delivery customers of Oncor.

Sharyland owned McAllen and Stanton Division substations (total of 37 substations) and billed Oncor for wholesale-distribution-substation service ("WDSS") related to these 37 substations.

Oncor's base rates approved in Docket No. 46957 were effective November 27, 2017. These rates reflect the impact of the Oncor-Sharyland exchange however exclude recovery of Oncor's wholesaledistribution-substation-service costs incurred related to the 37 substations that Sharyland continued to own after the exchange and that continued to serve the retail delivery customers transitioned to Oncor from Sharyland Beginning November 27, 2017, Sharyland began billing Oncor for wholesale-distribution-substation services at Sharyland's Tariff WDSS rates related to the wholesale-distribution-substation services to serve these retail delivery customers served by Oncor that were previously served by Sharyland until customers were transitioned to Oncor. The orders in Docket Nos 46957 and 48929 approved Oncor establishing a regulatory asset to capture the WDSS amounts Oncor pays to Sharyland and NTU permitting Oncor to seek recovery of those amounts in a future proceeding

Oncor's acquisition of Oncor NTU (InfraREIT/NTX) was approved in Docket No. 48929 The acquisition closed May 16, 2019 Oncor NTU's tariffs were effective May 17, 2019. Oncor NTU (NTX) owns 34 substations and bills Oncor for WDSS related to these 34 substations Sharyland (STX) continued to own three substations in the McAllen Division (Bentsen, Railroad, and Taylor) and billed Oncor for WDSS related to these three substations until Oncor sold facilities in Mission and McAllen to AEP and the retail delivery customers in Mission and McAllen were transitioned to AEP.

Docket No 49402 - AEP's acquisition of Oncor's facilities in Mission and McAllen - Oncor's updated retail delivery tariff excluded these cities effective November 21, 2019 Sharyland no longer bills Oncor and Oncor no longer incurs WDSS related to Sharyland's three substations since AEP now serves the retail delivery customers in Mission and McAllen

Docket No. 47469, Item No. 69 reflects SPS refund due Oncor for Oncor customers formerly served by Sharyland Consistent with advice from PUC Staff, Oncor applied refund as an offset to the WDSS regulatory asset

#### WP/II-E-5 Page 1 of 1

# 2022 Rate Case Oncor Electric Dellvery Company LLC Other Revenues For the Test Vear Ending December 31, 2021 Sponsor: W Alan Ledbetter & M. Troxle

Total Consolidated Test Year Operating Revenue	\$ 4,764,035,928
Less Retail T&D Wires Revenue (CC,MC, DSC, DCRF)	2,227,838,706
Less' TCRF & TSC Revenue (TCRF, TSC)	1,475,932,111
Less TCRF - Over/Under Calculation (Billed)	41,275,820
Less Advanced Meter Service	(20,475,713)
Less Energy Efficiency Cost Recovery Factor	77,125,798
Less Rate Case Expense Recovery Factor	292
Less Remand	(453)
Less Wholesale Rate NTS - Oncor Legacy	731,597,198
Less Wholesale Rate NTS - NTUSU	147,879,221
Less Wholesale Rate (XFMR/DLS)	2,270,930
Less WDSS - NTUSU	20,787,528
Less Unbilled Revenue DSC/DCRF/Discretionary	(11,126,626)
Less' Unbilled TCRF, EECRF, AMCRF	(3,756,986)
Less Deferred Unbilled TCRF, EECRF, AMCRF	3,756,986
Total Consolidated Other Revenue Items	\$ 70,931,116

•

Account	Detail of Other Revenue Items	TRAN Rev Credit	Distribution Rev Credit	NTU TRAN Rev Credit	Grand Totals
450 451 451	Forfeited Discounts (Penelities for late payment) Retail T&D Discretionary Revenues Miscellaneous Service Revenue		\$ 1,070,706 20,397,857 456,565	\$ -	\$ 1,070,706 20,397,857 456,565
454	Rents from Pole Contacts Rents from Fiber Optics Rents from Other	961,339	8,281,656 1,059,911	- -	8,281,656 2,021,250
454	Antenna Lease Rent from Property - ROW/Misc Bidg rentals Total Cost of Ownership - NTU Total Cost of Ownership - STU Sub-total Rents from Other Rents from Affiliate (NTUSU)	14,538,318 616,896 306,804 49,531 \$ 15,510,550 \$ 305,804	16,700 \$ 16,700 \$ 2,000 \$ 2,0000 \$ 2,000 \$	- - - - - - - - - - - - - - - - - - -	14,555,018 616,896 305,804 49,531 \$ 15,527,250 \$ 305,804 2 05,524
	Sub-total Rants - Account 454 (Consolidated)	\$ 16,166,085	\$ 9,356,267	<u> </u>	\$ 25,524,352
456	Other Revenue-Other Miscellaneous Billings Mutual Assistance	\$	\$ 176,505	\$-	\$
	CIAC Gross Up To, From & Over - onginal DC tie To, From & Over - onginal DC tie - SMGPM	708,439 885,187 13,297	5,189,025	176,005 2,810	5,897,464 1,061,191 16,107
	ro, From a Over - Mexico te Pro Rata/Dual Feed Services provided to NTUSU (elim) Services provided to SU	296,912 1,041,201 9,283,183 542,796	- 329,942 -	58,947 1,565	355,859 1,372,707 9,283,183 542,796
456	Tampening - TDSP energy portion of tampening Sub-total Other Revenue TRN Services for NTUSU (elim)	\$ 13,100,016 \$ 9,283,183	177,841 \$ 5,873,313 \$ -	\$ 239,327 \$ -	177,841 \$ 19,212,655 \$ 9,283,183
	Other Revenue - Engineering and Operations	\$ 3,616,832	\$ 5,873,313	\$ 239,327	\$ 9,929,472
	High Voltage maintenance - third parties Facilities studies, interconnection studies, DG studies Sub-total Other Revenues - Engineering and Operations	\$ 3,847,142 9,315,022 \$ 13,162,164	\$ <u>390,000</u> \$390,000	\$	\$ 3,847,142 9,705,022 \$ 13,552,164
	Sub-total Other Revenue - Account 456 Sub-total Regulated T&D	\$ 16,978,997 \$ 33,145,081	\$ 6,263,313 \$ 37.546,708	\$ 239,327 \$ 239,327	\$ 23,481,636 \$ 70,931,116
	Addback Eliminations Subtotal	\$ 9,588,988			\$ 9,588,988 \$ 80,520,103
	Adjustments Known and Measurable Changes Other Electric Revenues ROW and Miscellaneous A454 Other Electric Revenues A456 Power Factor	TCOS \$ (52,029) 101,559 409	Distribution \$ (176,505) 17,616,778	NTUSU	Totels \$ (228,534) 101,559 409 17,616,778
	Total K&M changes		2,070,647		\$ 19,560,859
	Total Other Revenues Note	\$ 42,784,008	\$ 57,057,628	\$ 239,327	\$ 29,149,847
	(1) (2) (3) (4)	Exclude Mutual Assistance K&M adjustment for Septen See WP/IV-J-7, Page 15 of See WP/IV-J-2/1, Page 2 or	nber 2021 TRN billing (revenu 18 f 2	ie) See WP/II-D ADJUSTME	ENTS/59 for details

(1) (2) (2) (3) (4)

4720

#### 2022 RATE CASE ONCOR ELECTRIC DELIVERY COMPANY LLC SCHEDULE II-F FUNCTIONALIZATION FACTORS FOR THE TEST YEAR ENDING DECEMBER 31, 2021 SPONSOR: W. ALAN LEDBETTER

				NTU	DC	CONSOL			NTU		CONSOL						
			TRAN	TRAN	TIE	TRAN		DIST	DIST		DIST		MET	TDCS		Total	
PAYXAG	ESD		499,001 22		•	499,001.22		104,258,327.97			104,258,327 97		31,085,348 77	1,250,915 33		137,093,593 29	
	TRN		40,827,408 44	-	-	40,827,408.44		9,754,366.46	-		9,754,366 46		-			50,581,774.90	
	Total	\$	41,326,409.66	\$-	\$-	\$ 41,326,409.66	\$	114,012,694.43	\$-	\$	114,012,694.43	\$	31,085,348.77	\$ 1,250,915.33	\$	187,675,368.19	
	Pct		22 02%	0 00%	0 00%	22.02%		60.75%	0 00%	6	60.75%		16.56%	0 67%	_		
TOWXEP	ESD		55,639,921 93	-	-	55,639,921 93		2,096,533,142 02	-		2,096,533,142.02		115,302,031 90	94,276,888.06		2,361,751,983 91	1
	TONDO	1	1 2/1 919 79	-	-	1 241 919 79		17,186,085 30	•		17,186,085 30		-	49 765 53		181,638,028.57	* Excludes amount for DC Tie
	Total	57	21,433,683,98	\$.	\$.	\$ 221,433,683,98	Ś	2,117,557,264.47	\$.	\$	2 117 557 264 47	\$	116 306 605 15	\$ 94 325 653 58	\$ 1	0,233,194 70	
	Pot	<u> </u>	8 68%	0.00%	0.00%	8 68%	<u> </u>	83.05%	0.00%	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	83.05%	<u> </u>	4 56%	3 70%	÷.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
			0.0070	0 00/0	0.0070	0.0070		00 05/0	0 007	•	05 05/0		1 5070	57070			
DISTOPX	ESD		-	-		-		35,185,586 80			35,185,586.80		28,582,785.12	-		63,768,371.92	
	TRN		199,831.28	-	-	199,831 28		3,848,993.88			3,848,993.88			-		4,048,825.16	
	Total	\$	199,831.28	\$-	\$-	\$ 199,831.28	\$	39,034,580.68	\$-	\$	39,034,580.68	\$	28,582,785.12	\$ -	\$	67,817,197.08	
	Pct		0.29%	0 00%	0 00%	0.29%		57 56%	0.00%	6	57.56%		42 15%	0 00%			
DISTMAX	ESD		-	-		-		151,247,759.83	-		151,247,759.83		16,702,839.54	-		167,950,599 37	
	THN	<u> </u>	406,672 37		· · ·	406,672 37	-	9,177,394 72	· ·	~	9,177,394 72	~	16 703 030 74		~	9,584,067.09	
	Total	~	406,672.37	Ş-	\$- 0.00%	\$ 406,672.37	\$	160,425,154.55	>-	<u> </u>	160,425,154.55	>	16,/02,839.54	<u> </u>	>	177,534,666.46	
	Pct.		0 23%	0 00%	0.00%	0.23%		90 36%	0.00%	6	90.36%		9.41%	0.00%			
0.902 3	ESD		-			_		10 743 10			10 743 10		8 727 371 96	10 906 553 98		19 644 669 04	
0002_0	TRN			-				-			-					-	
	Total	\$		\$-	\$-	\$ -	\$	10,743.10	\$-	\$	10,743.10	\$	8,727,371.96	\$ 10,906,553.98	\$	19,644,669.04	
	Pct		0 00%	0 00%	0 00%	0.00%		0 05%	0 00%	6	0.05%		44 43%	55.52%			
C906_9	ESD		•	-	·	-		249,937 92	•		249,937.92		579,610.08	46,425,416 93		47,254,964.93	
	TRN		<u> </u>	<u>,                                     </u>				-	-			~	-	-	-		
	l otal	\$	-	<u>Ş-</u>	\$-	\$ - 0.00%	>	249,937.92	<u>&gt; -</u>	<u>}</u>	249,937.92	\$	579,610.08	\$ 46,425,416.93	\$	47,254,964.93	
	PCI		0.00%	0.00%	0.00%	0.00%		0 53%	0.007	6	0.55%		1 23%	98 24%			
D-PAYXA	CESD		499 001 22			499 001 22		104 258 327 97	-		104.258.327 97		31.085.348 77	1.250.915 33		137.093.593 29	
01 ATAN	Total	Ś	499.001.22	\$-	Ś -	\$ 499,001.22	\$	104,258,327.97	\$~	\$	104,258,327.97	\$	31,085,348.77	\$ 1,250,915.33	\$	137,093,593.29	
	Pct.		0 36%	0.00%	0 00%	0.36%		76 05%	0 00%	6	76 05%		22.67%	0,91%	<u> </u>		
T-PAYXA	GTRN		40,827,408 44			40,827,408 44		9,754,366.46	-		9,754,366 46		-			50,581,774.90	
	Total	\$	40,827,408.44	\$-	\$-	\$ 40,827,408.44	\$	9,754,366.46	\$-	\$	9,754,366.46	\$		\$	\$	50,581,774.90	
	Pct		80.72%	0 00%	0 00%	80.72%		19 28%	0 00%	6	19.28%		0 00%	0.00%			
								25 105 505 00			25 195 596 90		20 502 705 12			(2 7(9 271 02	
DISTOPX	Total	ć		· ·	· ·		ċ	35,185,586,80	· ·	é	35,185,586,80	¢	28 582 785 12	· ·	ć	63 768 371 92	
	Det	~	0.00%	- <del></del>	3-	0.00%	~	55,105,580.80	0.000		55,185,585.80	<u> </u>	AA 97%		<u></u>	03,700,371.52	
	FUL		0.00%	0.00%	0.00%	0.00%		33,18%	0.007	•	33.18%		44.02%	0.00%			
DISTMAX	- ESD		-	-				35,185,586 80	-		35,185,586 80		28,582,785 12			63,768,371 92	
	Total	\$	-	\$-	\$-	\$ -	\$	35,185,586.80	\$-	\$	35,185,586.80	\$	28,582,785.12	\$ -	\$	63,768,371.92	
	Pct	<del>.</del>	0.00%	0 00%	0.00%	0.00%		55 18%	0 00%	6	55 18%		44 82%	0.00%			

WP/II-F PAGE 1 OF 1

WP/II-H-1.1 Page 1 of 1

## PUC DOCKET NO. ONCOR ELECTRIC DELIVERY COMPANY LLC TEST YEAR SALES DATA FOR THE TEST YEAR ENDING DECEMBER 31, 2021

SPONSOR: D. E. NELSON

There are no supporting workpapers for Schedule II-H-1.1.

See Schedule II-H-1.2 for supporting documentation.

WP/II-H-1.1.1/1 Page 1 of 1

# PUC DOCKET NO. ONCOR ELECTRIC DELIVERY COMPANY LLC TEST YEAR ENERGY FLOWS ACROSS DC TIES FOR THE TEST YEAR ENDING DECEMBER 31, 2021

SPONSOR: D. E. NELSON

There are no supporting workpapers for Schedule II-H-1.1.1.

 $\mathbf{x}$ 

.

WP/II-H-1 2/1 Page 1 of 8

#### PUC DOCKET NO ONCOR ELECTRIC DELIVERY COMPANY LLC MONTHLY SALES DATA TEST YEAR ENDING December 31, 2021

#### SPONSOR: D. E NELSON

#### Weather Adjustment (MWH) By Class (based on 20-year average weather 2001-2020)

Line	Year	Month	Residential	SECLE10	SECGT10_IDR	SECGT10_NIDR	PRMLE10	PRMGT10_IDR_NoSUB	PRMGT10_IDR_SUB	PRMGT10_NIDR	Transmission	Lighting	Total
110			(a)	(0)	(C)	(a)	(e)	(!)	( <u>g)</u>	(h)	()		(k)
1	2021	1	176 299	2 131	18 422	27 240	٥	1 235	451	147	0	0	225 925
2	2021	2	(86 661)	(1.080)	208	310	0	964	332	114	0	ő	(85,813)
3	2021	3	(1.051.981)	(13.874)	(64,739)	(106.379)	õ	1 794	641	222	ő	õ	(1.234.316)
4	2021	4	251,523	3.604	20.895	27,939	ō	2,738	674	338	Ő	Ō	307.712
5	2021	5	207,360	3,212	45,779	66,059	ō	11,950	3,485	1,615	0	0	339,461
6	2021	6	486,768	8,032	75,907	118,460	0	15,924	4,230	2,184	0	0	711,505
7	2021	7	202,638	4,236	26,843	43,905	0	10,225	2.441	1,391	0	0	291,679
8	2021	8	384,606	7,779	50,243	83,303	0	15,626	3,170	1,397	0	0	546,123
9	2021	9	(7,700)	585	(3 453)	(5,837)	0	1,403	(256)	183	0	0	(15,075)
10	2021	10	(73,527)	(1,188)	(19,582)	(30,869)	0	(5,348)	(1,617)	(889)	0	0	(133,020)
11	2021	11	(12,178)	(229)	(17,501)	(24,697)	0	(5,189)	(1,491)	(650)	0	0	(61,935)
12	2021	12	448,145	6,573	26,972	36,981	0	(1,264)	(859)	(160)	0	0	516,388
13	Total		925,293	19,782	159,995	236,414	0	50,057	11,200	5,891	0	0	1,408,633
14								Customer Count					
16								Customer Count					
17	Year	Month	Besidential	SECLE10	SECGT10 IDB	SECGT10 NIDB	PRMLE10	PRMGT10 IDR NoSUB	PRMGT10 IDR SUB	PRMGT10 NIDR	Transmission	Liahtina	Total
18			(1)	(m)	(n)	(0)	(q)	(q)	(r)	(s)	(t)	(u)	(v)
19				<u></u>									
20	2021	1	3,202,892	296,726	5,289	195,067	2,979	1,521	121	5,712	268	56,343	3,766,918
21	2021	2	3,208,216	296,916	5,291	195,641	2,976	1,525	121	5,688	269	56,263	3,772,906
22	2021	3	3,214,871	297,390	5,289	196,641	3,005	1,522	122	5,669	270	56,215	3,780,994
23	2021	4	3,221,873	299,035	5,290	196,661	3,034	1,519	122	5,641	275	56,208	3,789,658
24	2021	5	3,228,777	299,788	5,309	197,010	3,065	1,531	122	5,598	277	56,134	3,797,611
25	2021	6	3,234,379	300,604	5,371	197,289	3,069	1,565	124	5,545	278	56,089	3,804,313
26	2021	7	3,236,273	301,274	5,367	197,702	3,081	1,564	124	5,545	282	55,909	3,807,121
27	2021	8	3,240,184	301,519	5,364	198,092	3,093	1,560	128	5,534	282	55,731	3,811,487
28	2021	9	3,244,734	302,471	5,374	197,946	3,096	1,555	129	5,544	203	55,596	3,010,729
29	2021	10	3,248,681	303,108	5,455	197,922	3,111	1,600	129	5,543	203	55,408	3,021,240
30	2021	11	3,253,575	303,828	5,449	197,000	3,103	1,597	129	5,551	203	55 208	3,820,071
30	Total	12	3,230,203	304,430	5,440	190,142	3,101	1,050	150	5,500	200	00,200	0,002,101
33	Total												
34							Custo	mer-Adjusted Weather*					
35													
36	Year	Month	Residential	SECLE10	SECGT10_IDR	SECGT10_NIDR	PRMLE10	PRMGT10_IDR_N₀SUB	PRMGT10_IDR_SUB	PRMGT10_NIDR	Transmission	Lighting	Total
37			<u>(w)</u>	(x)	(y)	(z)	(aa)	(bb)	(cc)	(dd)	(ee)	(ff)	(99)
38											•	•	000 007
39	2021	1	179,348	2,187	18,969	27,669	0	1,297	485	143	0	0	230,097
40	2021	2	(88,014)	(1,107)	214	314	0	1,010	357	111	0	0	(07,115)
41	2021	3	(1,066,186)	(14,203)	(00,000)	(107,191)	0	1,003	718	210	0	0	311 628
42	2021	4	204,300	3,009	21,011	20,149	0	12,001	3 714	1 604	0	ő	343 707
43	2021	e S	490 365	3,202	76 967	118 073	0	16,260	4 4 3 4	2 190	0	ŏ	717 323
45	2021	7	204 017	4,281	27,238	44.003	ő	10,200	2,559	1,395	õ	ō	293,939
46	2021	, B	386 754	7,854	51.011	83.324	ő	16,006	3,219	1,404	ō	ō	549.572
47	2021	9	(7,732)	589	(3,499)	(5,843)	õ	1.441	(258)	183	ō	õ	(15,119)
48	2021	10	(73,744)	(1,193)	(19,550)	(30,903)	Ō	(5,342)	(1,629)	(892)	0	0	(133,253)
49	2021	11	(12,195)	(229)	(17,492)	(24,731)	0	(5,193)	(1,503)	(651)	0	0	(61,994)
50	2021	12	448,145	6,573	26,972	36,981	0	(1,264)	(859)	(160)	0	0	516,388
51	Total		924,379	19,816	162,642	237,182	0	51,901	11,920	5,878	0	0	1,413,718

\*By Class, December Ended Customer Count/Current Month\*Current Month Weather Adjustment MWH

#### WP/II-H-1 2/1 Page 2 of 8

#### PUC DOCKET NO ONCOR ELECTRIC DELIVERY COMPANY LLC MONTHLY SALES DATA TEST YEAR ENDING December 31, 2021

#### SPONSOR: D. E. NELSON

Residential Weather Adjustment (MWH)											
			CDD Model	CDD Mode	I Scaler						CDD MWH
Line	Year	Month	Coefficient	CoolIndex	CoolUse	Customer	CDD Coefficient	Actual CDD	Normal CDD	CDD Deviation	Adjustment
			(a)	<u>(b)</u>	(c)	(d)	$(e) = (a^b^c^d)/1000$	(f)	(g)	(h)=g-f	(ı)=e*h
1	2021	1	2 289	0 8300	1 0700	3,202,892	6.511	0.053	1 817	1 764	11 487
2	2021	2	2 289	0 8300	1 0700	3.208.216	6.522	0.073	1 347	1 274	8,308
3	2021	3	2 289	0.8300	1 0700	3 214 871	6 535	3,380	5 150	1 770	11 568
4	2021	4	2,289	0.8300	1 0700	3 221 873	6,550	15 688	22.956	7 268	47 601
5	2021	5	2 289	0.8300	1.0700	3 228 777	6 564	41 607	76 129	34 521	226 586
6	2021	õ	2 289	0.8300	1 0700	3 234 379	6.575	140 655	214 749	74.003	497 167
7	2021	7	2 289	0.8300	1 0700	3 236 273	6 579	352 364	293 154	30 790	202 566
8	2021	Ŕ	2 289	0 8300	1 0700	3 240 184	6 587	386 179	444 569	58 390	384 604
G.	2021	ő	2 280	0 8300	1 0700	3 244 734	6 596	285 151	393 030	(1 211)	(7 001)
10	2021	10	2 280	0.000	1 0700	3 249 681	6,030	218 247	204 891	(13 367)	(88.276)
11	2021	11	2 289	0 8300	1 0700	3 253 575	6,004	70 494	57 300	(13.025)	(86,1/6)
12	2021	12	2 289	00000	1 0700	3 258 283	6,674	7 754	0708	1 974	13.074
12	Total	12		0 0000	10/00	3,200,203	0,024	1.04	1 906	194 242	1 210 549
14	( Ola)							1,022	1,800	104 242	1,210,040
15			HDD Model		Scaler						
16	Year	Month	Coefficient	HeatIndex	Heatilse	Customer	HDD Coefficient	Actual HDD	Normal HDD	HDD Deviation	Adjustment
17	i oui		(i)	(k)	(1)	(m)	$(n) = (i^*k^*i^*m)/1000$	(0)	(n)	(n)-n-0	(r)=n*a
18			W								(1)=ii q
19	2021	1	2 055	0.9800	1 0800	3 202 892	6 966	198.480	222 139	23 658	164 812
20	2021	2	2 055	0 9800	1 0800	3 208 216	6 978	234 818	221 208	(13 610)	(94,970)
21	2021	3	2 055	0 9800	1 0800	3 214 871	6 992	311 735	159 634	(152 101)	(1.063.548)
22	2021	4	2 055	0.080 0	1 0800	3 221 873	7 008	25 418	54 518	29 100	203 922
23	2021	5	2 055	0 9800	1 0800	3 228 777	7 023	15 068	12 330	(2 738)	(19.226)
24	2021	ě	2 055	0 9900	1 0800	3 234 379	7,020	1 105	1 048	(0.057)	(399)
25	2021	7	2.000	0.9900	1 0800	3 236 273	7,005	0.001	0.011	0.010	(000)
26	2021	, 8	2.055	0 9900	1 0800	3 240 184	7 119	0 000	0.000	0.010	2
27	2021	ă	2 000	0.0000	1 0800	3 244 734	7 129	0.000	0 041	0.041	201
28	2021	10	2 055	0 9900	1 0800	3 248 681	7 138	0 231	2 297	2 066	14 749
20	2021	11	2,000	0,0000	1 0800	3 253 575	7 149	16 473	26 820	10.347	73,968
30	2021	12	2 055	0,9900	1 0800	3 258 283	7 159	59 034	119 805	60.772	435.071
31	Total			0.0000		0,200,200		862	820	(42.511)	(285 255)
32	1 Otal							002	020	(42.011)	(200,200)
33											
34	Vear	Month									Total
36	1 Cal	WORTH									(s)=i+r
36				····							
37	2021	1									176 299
38	2021	2									(86,661)
39	2021	3									(1.051.981)
40	2021	4									251 523
41	2021	5									207,360
42	2021	6									486 768
43	2021	7									202 638
44	2021	, В									384 606
45	2021	o,									(7 700)
46	2021	10									(7,700) (70 607)
47	2021	11									(10,027)
48	2021	12									449 145
40	Total	14									925 202
-0	10101										323,283

4725

WP/II-H-1 2/1 Page 3 of 8

#### PUC DOCKET NO ONCOR ELECTRIC DELIVERY COMPANY LLC MONTHLY SALES DATA TEST YEAR ENDING December 31, 2021

#### SPONSOR: D. E. NELSON

#### Secondary Service Less Than or Equal to 10 KW Weather Adjustment (MWH)

$ \begin{array}{c c c c c c c c c c c c c c c c c c c $				CDD Model				. ,		CDD MWH
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Line	Year	Month	Coefficient	Customer	CDD Coefficient	Actual CDD	Normal CDD	CDD Deviation	Adjustment
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	No.			(a)	<u>(b)</u>	(c) = (a*b)/1000	(d)	(e)	(f)=e-d	(g)=c*f
2     2021     2     0.459     296.916     136     0.049     0.858     0.809     110       4     2021     4     0.459     229.330     137     2.231     3.937     1.166     159       5     2021     5     0.459     229.035     137     10.407     15.036     5.629     773       6     2021     6     0.459     300.004     138     104.493     162.595     5.8102     8.017       7     2021     7     0.459     301.519     138     291.079     347.286     56.207     7.779       9     2021     9     0.459     303.106     139     140     5076     6.399     1.323     185       11     2021     1     0.459     303.108     139     49.768     40273     (9515)     (1.327)       12     2021     1     0.459     304.430     HDD     Normal HDD     HDD Movit     Adjustment       14      1.223     1.323 <t< td=""><td>1</td><td>2021</td><td>1</td><td>0.459</td><td>296 726</td><td>136</td><td>0.030</td><td>1 157</td><td>1 127</td><td>153</td></t<>	1	2021	1	0.459	296 726	136	0.030	1 157	1 127	153
5     2021     3     0.459     297,300     137     2.231     3.367     1166     156       5     2021     5     0.459     229,789     138     10.407     15.669     273       5     2021     6     0.459     300,604     138     10.403     162.555     55.8102     2.6117       7     2021     7     0.459     301,274     138     224.697     285.55     30.630     4.236       6     2021     9     0.459     302,471     138     220.624     226.601     4.177     7.800       11     2021     10     0.459     303,288     139     160.556     155.606     (9.956)     (1.324)       12     2021     12     0.459     303,420     140     5.768     6.999     122.31     165       13     Total     1.209     1,375     165.899     22.883     165     13.23     165     13.23     165     13.23     165     13.23     165     13.23 <td>2</td> <td>2021</td> <td>2</td> <td>0 400</td> <td>296,916</td> <td>136</td> <td>0.000</td> <td>0.858</td> <td>0.800</td> <td>110</td>	2	2021	2	0 400	296,916	136	0.000	0.858	0.800	110
1     2021     4     0 459     299,035     137     1.0.07     4.0.06     5.629     773       2     2021     5     0 459     390,064     138     124 70     15.869     226 12     3.633       2     2021     7     0 459     390,064     138     124 407     15.859     265.255     3.620     4.735       9     2021     7     0 459     301,174     138     264.827     285.265     3.620     4.735       9     2021     10     0 459     303,108     139     260.824     255.061     4.177     180       10     2021     11     0 459     303,108     139     260.824     255.061     4.177     180       11     0 459     303,108     139     260.826     399     123.3     1183       12     0 459     304,430     140     50.076     63.999     123.3     1183       12     0 459     304,430     140     0.766     6.399     123.3<	3	2021	3	0 450	200,010	137	2 2 2 1	3 307	1 166	150
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	4	2021	4	0 459	200,000	197	10 407	16.036	5 620	773
3     2021     5     0 4:93     228/168     138     120.1     32.550     221.162     30.039       7     2021     7     0.459     301.274     138     224.272     235.557     30.630     4.336       9     2021     6     0.459     302.274     138     224.272     235.557     30.630     4.336       9     2021     6     0.459     302.471     139     220.624     286.001     1.957     5.802     1.387     1.382       10     2021     1     0.459     302.420     140     5.076     6.309     1.223     1.85       120     0.459     302.420     140     5.076     6.309     1.223     1.85       13     Total     1.209     1.775     168.899     22.883     1.85     2.2893     1.85       14     0.298     286.016     98     227.608     249.074     22.366     1.978       2021     1     0.298     286.016     98     227.608	5	2021	4	0 455	299,000	107	10.407	10,030	2 0 2 9	2 602
0     2021     7     0.0139     300,004     138     1.02,339     30,02     0.011       8     2021     8     0.459     301,274     138     226,827     228,557     306,300     4,235       9     2021     9     0.459     300,108     138     210,824     226,001     4177     366       10     2021     10     0.459     302,421     138     120,824     226,001     4177     366       11     2021     11     0.459     302,430     140     50,76     6,399     1,323     135       12     2021     1     0.298     228,830     140     50,76     6,399     1,323     135       13     Total     1209     1,375     165,889     22,866     1,378     1,09     1,09     1,01     (n)	5	2021	5	0 459	299,700	100	29.707	162 505	20 102	3,003
1     2021     8     0.439     301,214     133     20.837     20.937     30.630     4.239       9     2021     9     0.459     302,471     138     228,073     347,286     552,077     7,779     9       9     2021     10     0.459     303,168     139     165,056     552,001     4.177     560       11     2021     11     0.459     303,288     139     437,286     402,73     (9,515)     (1.384)       12     0.459     304,30     14     0     5.076     6.399     1.323     185       13     Total	7	2021	7	0 459	201.074	100	104.493	102.090	30.102	4.000
0     2021     9     0.439     307,319     133     2.81,019     347,260     302,07     7,77       10     2021     10     0.459     303,108     139     160.556     150.606     (8,956)     (1,387)       11     2021     11     0.459     303,128     139     467.85     40.273     (8.515)     (1,327)       12     2021     12     0.459     304,430     140     5.076     6.399     1.323     185       14     Total     1,209     1,375     165.889     22,283       14     Catiomer (h)     0.459     304,430     140     5.076     6.399     1,323     165       17     Total     1,205     165.889     22,2883       16     Value     1,209     1,375     165.899     22,2683       17     Catiomer (h)     Model     HDD MWH       16     Value     Value      10,375	0	2021	, ,	0 409	301,274	100	204.927	290 007	50 030	4,230
5     2021     10     2021     10     2021     10     2021     11     0     459     303,108     139     160 556     150 056     150 156 <th16 156<="" th="">     150 156     15</th16>	0	2021	0	0 459	202 471	100	291.079	347.200	30 207	1,779
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	10	2021	10	0 459	302,471	139	290 624	293 001	(0.050)	(1 294)
1     2021     12     0.459     0.30,228     139     45,765     10,273     (13,27)     (14,23)     (13,27)     (13,27)     (13,27)     (13,27)     (13,27)     (13,27)     (14,03)     (14,03)     (13,27)     (14,03)     (14,03)     (14,03)     (14,03)     (14,03)     (14,03)     (14,03)     (14,03)     (14,03)     (14,03)     (14,03)     (14,03)     (14,03)     (14,03)     (14,03)     (14,03)     (14,03)	11	2021	10	0 459	303,100	109	100 330	40 072	(9.550)	(1,304)
Image: Construct of the construction of the	10	2021	10	0 459	303.020	139	49700	40 273	(3010)	(1.327)
India     HDD Model     HD	12	Total	12	0455	304,430	140	1 200	1 275	165 990	22 883
HDD Model     HDD Model     HDD Coefficient     Actual HDD     Normal HDD     HDD Deviation     Adjustment       16     (h)     (i)     (i)     (i)     (ii)     (iii)     (iii)     (iii)     (iii)     (iiii)     (iiiii)     (iiiii)     (iiiii)     (iiiii)     (iiiii)     (iiiii)     (iiiii)     (iiiii)     (iiiiii)     (iiiiii)     (iiiiii)     (iiiiiii)     (iiiiiii)     (iiiiiii)     i	14	Total					1,208	1,070	103 009	22,000
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	15									
10     Teal     Month     Communit     Cosmutini     Cosmutini <thcosmutini< th=""></thcosmutini<>	16	Voor	Month	Coofficient	Customor			Normal HDD	HOD Dovintion	Adjustment
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	17	rear	WORKI	(h)	Gustomer	hDD Coefficient	/L)		(m)-l-k	(n)-i*m
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	10				<u>_</u>	() = (ii i)/1000	(N)	0	010=1-6	101-110
10     202     11     0.203     250,725     0.00     220,305     243,507     22,305     11,305       20     2021     2     0.298     297,390     89     335,051     176 700     (158 351)     (14.033)       22     2021     4     0.298     299,788     89     27,543     59,318     31,775     2,832       23     2021     6     0.298     299,788     89     17 077     12 706     (4 371)     (391)       24     2021     6     0.298     300,604     90     0.764     0.938     0.174     16       25     2021     7     0.298     301,774     90     0.000     0.006     1       26     2021     8     0.298     302,471     90     0.000     0.054     0.54     5       28     2021     10     0.298     303,828     91     17.173     29299     12.126     1.096       30     2021     12     0.298     304,430 <td< td=""><td>10</td><td>2021</td><td>1</td><td>0.208</td><td>206 726</td><td>89</td><td>227 608</td><td>240 074</td><td>22 366</td><td>1 978</td></td<>	10	2021	1	0.208	206 726	89	227 608	240 074	22 366	1 978
20     2021     2     0.2950     250,300     60     200,000     241,100     (10,352)     (14,033)       21     2021     3     0.298     299,330     89     235,651     176 700     (158,351)     (14,033)       22     2021     4     0.298     299,035     89     27,543     59,318     31,775     2,832       23     2021     6     0.298     300,604     90     0.764     0.938     0.174     16       24     2021     7     0.298     301,274     90     0.000     0.006     0.006     1       26     2021     8     0.298     302,471     90     0.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000     0.004     2.173     196       29     2021     10     0.298     303,108     90     0.140     2.313     2.173     196       30     2021     12     0.298     304,430     91     64,303	20	2021	2	0 200	206,720	66	260 639	243.374	(13 452)	(1 190)
21     2021     3     0.280     23,350     05     053,051     10.00     (14,053)     (14,053)       22     2021     5     0.298     299,035     89     27.543     59.318     31.775     2.832       23     2021     6     0.298     300,604     90     0.764     0.938     0.174     16       25     2021     7     0.298     301,274     90     0.000     0.006     0.006     1       26     2021     8     0.298     303,108     90     0.140     2.313     2.173     196       27     2021     9     0.298     303,028     91     17.173     29.299     12.126     1.098       30     2021     12     0.298     303,428     91     17.173     29.299     12.126     1.098       31     store     7.041     6.338       32     store     7.041     6.338       33     store     1.028     3.04,430	20	2021	2	0 200	200,010	80	235 051	176 700	(158 351)	(14.033)
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	21	2021	3	0.290	200,035	03	27 642	50 319	31 775	(14.000)
23     2021     3     0.285     259,765     055     1707     12705     (4577)     (1577)       24     2021     6     0.298     301,674     90     0.764     0.938     0.174     16       25     2021     7     0.298     301,579     90     0.000     0.006     0.006     1       26     2021     9     0.298     302,471     90     0.000     0.0064     0.054     0.054     5       29     2021     10     0.298     303,028     91     17.173     292.99     12.126     1.098       30     2021     12     0.298     303,828     91     17.173     292.99     12.126     1.098       31	22	2021	4	0 290	299,033	80	17 077	12 706	(4 371)	(301)
24   2021   0   0.285   300,004   90   0.004   0.005   0.14   10     25   2021   7   0.298   301,274   90   0.000   0.006   0.006   1     26   2021   8   0.298   301,274   90   0.000   0.000   0.000   0.000   0.000   0   0.000   0   0.000   0   0.000   0   0.000   0   0.000   0.000   0.000   0.000   0   0.000   0   0.000   0   0.000   0   0.000   0   0.000   0   0.000   0   0.000   0   0.000   0   0.000   0   0.000   0   0.000   0   0.000   0   0.000   0   0.000   0.000   0.000   0.000   0   0   0   0.000   0   0.00	20	2021	5	0.290	299,700	00	0.764	0.039	0 174	(031)
23 2021 1 0.535 301,274 90 0.000 0.000 0.000 0.000 0   27 2021 8 0.298 302,471 90 0.000 0.0	24	2021	7	0.290	201,004	90	0,000	0.006	0 006	1
20 2021 3 0.235 30,1515 50 0.000 0.000 0.000 0.004 0.0054 5   28 2021 10 0.298 303,108 90 0.140 2.313 2.173 196   29 2021 11 0.298 303,108 90 0.140 2.313 2.173 196   30 2021 12 0.298 303,828 91 17.173 29.299 12.126 1.098   31 2021 12 0.298 304,430 91 64,303 134 722 70.419 6.388   33 34 Year Month 30.4,430 91 64,303 134 722 70.419 6.388   33 34 Year Month 10.298 304,430 91 64,303 134 722 70.419 6.388   34 Year Month 10.298 304,430 91 64,302 136,704 3.604   35 36 2021 1 2.011 11 3.604 3.604   41 2021 5 3.212 3.212 3.212 3.212   42 2021 6 3.212 3.212 3.212	20	2021	á	0.290	201,274	90	0 000	0 000	0.000	0
27   2021   9   0.295   302,471   90   0.000   0.004   0.004   0.004   196     28   2021   10   0.298   303,108   90   0.140   2313   2.173   196     29   2021   11   0.298   303,828   91   17.173   29 299   12.126   1,098     30   2021   12   0.298   304,430   91   64,303   134 722   70.419   6,338     31   950   913   (37.081)   (3,101)   (3,101)     32   950   913   (37.081)   (3,101)   (3,101)     33   7   2021   1   1   (0)=g+n   (0)=g+n     36   7   2021   1   (1,080)   (13,874)   (3,604     41   2021   2    (13,874)   3,604   3,212   (13,874)   3,604     41   2021   5     3,604   3,212   4,236     44   2021   8     585   585   585	20	2021	0	0.290	301,318	50	0.000	0.054	0.000	5
29 2021 10 0.298 303,828 91 17.173 29299 12.126 1.098   30 2021 12 0.298 303,828 91 64,303 134 722 70.419 6,388   31 950 913 (37.081) (3,101)   32 950 913 (37.081) (3,101)   33 10 10.298 304,430 91 64,303 134 722 70.419 6,388   34 Year Month Total 0.994.1 0.994.1 (3,101)   35 10 11 2.913 134.722 70.419 6,388   36 11 10.298 304,430 91 64.303 134.722 70.419 6,388   36 11 11 11 11 11.998 11.998 11.11 11.11   37 2021 1 11.11 11.11 11.11 11.11 11.11   38 2021 2 11.11 11.11 11.11 11.11 11.11   38 2021 12 11.11 11.11 11.11 11.11   39 2021 12 11.11 11.11 11.11 <td< td=""><td>27</td><td>2021</td><td>10</td><td>0 290</td><td>302,471</td><td>90</td><td>0 000</td><td>0.004</td><td>0 004</td><td>106</td></td<>	27	2021	10	0 290	302,471	90	0 000	0.004	0 004	106
29 2021 11 0.298 303,520 91 1/1/13 25239 12.120 1,030   31 0.298 304,430 91 64,303 134 722 70,419 6,338   33 950 913 (37,081) (3,101)   33 950 913 (37,081) (3,101)   34 Year Month Total (0)=g+n   36 (1,080) (1,080) (1,080) (1,080)   37 2021 1 (1,080) (1,080)   39 2021 3 (1,080) (1,080)   39 2021 3 (1,080) 3,604   41 2021 5 (1,080) 3,604   41 2021 6 8,032   42 2021 6 8,032   43 2021 7 4,236   44 2021 8 7,779   45 2021 10 (1,180)   47 2021 11 (229)   48 2021 12 6,573   49 Total 19,762	28	2021	10	0 298	303,108	90	17 173	2010	10 106	1 009
30 2021 12 0.398 304,450 91 64,303 134 722 70.415 0.303   31 950 913 (37.081) (3,101)   32 33 10 10 10   33 10 10 10 10   34 Year Month Total (0)=g+n   36 10 10 11,080)   37 2021 1 2,131   38 2021 2 (1),080)   39 2021 3 (13,874)   40 2021 4 3,604   41 2021 5 3,212   42 2021 6 8,032   43 2021 7 4,236   44 2021 8 7,779   45 2021 10 (1,188)   46 2021 10 (1,188)   47 2021 11 (229)   48 2021 12 6,573	29	2021	11	0.296	303,626	91	64 202	124 700	70 410	6 399
31   33   950   913   (31,061)   (5,101)     32   33   34   Year   Month   Total     35   (0)=g+n   (0)=g+n   (1,080)   (1,080)     36   (1,080)   (1,3,874)   (1,3,874)     39   2021   3   (1,3,874)   (1,3,874)     40   2021   4   3,604   3,212     41   2021   5   3,604   3,212     42   2021   6   8,032   4,236     43   2021   7   4,236   7,779     44   2021   8   7,779   585     45   2021   10   (1,188)   6,573     47   2021   11   (229)   48   2021   2     48   2021   12   6,573   6,573   6,573	30	2021	12	0.296	304,430	91	04.303	012	/27.091)	(2.101)
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	31						950	913	(37.001)	(3,101)
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	32									
34 Teal Month   35 (0)=g+n   36 (1,080)   37 2021 1   38 2021 2   39 2021 3   41 2021 4   42 2021 6   43 2021 7   44 2021 8   45 2021 9   46 2021 10   47 2021 11   48 2021 12	33	Vaar	Manth							Total
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	34	rear	MONUN							(0)-010
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	35		<u> </u>							(0)-9+11
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	30	2021	+							0 191
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	37	2021	2							(1.090)
35   2021   3     40   2021   4     41   2021   5     42   2021   6     43   2021   7     44   2021   8     45   2021   9     46   2021   10     47   2021   11     48   2021   12	20	2021	2							(13 874)
40   2021   4   5,004     41   2021   5   3,212     42   2021   6   8,032     43   2021   7   4,236     44   2021   8   7,779     45   2021   9   585     46   2021   10   (1,188)     47   2021   11   (229)     48   2021   12   6,573     49   Total   19,782   19,782	40	2021	3							3 604
41 2021 6 8,032   43 2021 7 4,236   44 2021 8 7,779   45 2021 9 585   46 2021 10 (1,188)   47 2021 11 (229)   48 2021 12 6,573	40	2021	5							3 212
43 2021 7 4,236   44 2021 8 7,779   45 2021 9 585   46 2021 10 (1,188)   47 2021 11 (229)   48 2021 12 (229)	41	2021	6							8 032
44 2021 8 7,779   45 2021 9 585   46 2021 10 (1,188)   47 2021 11 (229)   48 2021 12 6,573   49 Total 19,782	43	2021	7							4 226
45 2021 9 585   46 2021 10 (1,188)   47 2021 11 (229)   48 2021 12 6,573   49 Total 19 782	40	2021	, s							7 770
46     2021     10     (1,188)       47     2021     11     (229)       48     2021     12     6,573       49     Total     19,782	45	2021	0 0							505
47     2021     11     (229)       48     2021     12     6,573       49     Total     19 782     19 782	46	2021	10							(1 100)
48 2021 12	40	2021	11							(1,100)
49 Total 19782	49	2021	12							(229) 6 573
	49	Total	12							19 782

WP/II-H-1 2/1 Page 4 of 8

#### PUC DOCKET NO ONCOR ELECTRIC DELIVERY COMPANY LLC MONTHLY SALES DATA TEST YEAR ENDING December 31, 2021

#### SPONSOR D. E. NELSON

#### Secondary Service Greater Than 10 KW Weather Adjustment (MWH)

			CDD Model						CDD MWH
Line	Year	Month	Coefficient	Customer	CDD Coefficient	Actual CDD	Normal CDD	CDD Deviation	Adjustment
No			(a)	(b)	(c) = (a*b)/1000	(d)	(e)	(f)=e-d	(g)=c*f
1	2021	1	11.532	200.356	2 311	0.627	6 1 1 1	5 483	12 670
2	2021	2	11 532	200,000	2 3 1 7	0 923	1 927	4 004	9 279
3	2021	3	11 532	201 930	2 329	10 113	15 109	4 995	11 632
4	2021	4	11 532	201,000	2,329	41 907	50 859	8 952	20.849
5	2021	5	11 532	202 319	2 333	83 825	131 168	47 343	110,458
ê	2021	ő	11 532	202.660	2,000	215 242	298 312	83 070	194 142
7	2021	7	11 532	202,000	2,007	453 605	483.816	30 211	70 748
, 8	2021	, 8	11 532	203,005	2,346	485 792	542 701	56 919	133 546
ğ	2021	ă	11 532	200,400	2 345	400 702	478 817	(3 968)	(9,304)
10	2021	10	11 532	203,327	2,040	304 885	283 023	(21 862)	(51 273)
11	2021	11	11 532	203,317	2,040	119 779	98 325	(21 454)	(50,302)
12	2021	12	11 532	203,588	2,040	23 960	23 726	(0.234)	(549)
13	Total		11.002	200,000	2,040	20 300	2 / 17	193 461	451 895
14	rotar					2,220	4,417	100 401	401,000
15			HDD Model						HOD MWH
16	Vear	Month	Coefficient	Customer	HDD Coefficient	Actual HDD	Normal HDD	HDD Deviation	Adjustment
17	reur	Month	(h)	(i)	$(i) = (b^*i)/1000$	/4/	(I)	(m)-i-k	(n)-i*m
18							0	(ing-i-k	
19	2021	1	5 945	200.356	1 101	134 515	162 214	27 699	32 993
20	2021	2	5 945	200,030	1,105	171 545	164 210	(7 334)	(8 761)
21	2021	3	5 945	200,002	1 200	264 567	112 336	(152 231)	(182 750)
22	2021	4	5 945	201,000	1 201	6 9 1 8	30 227	23 309	27.984
23	2021	5	5 945	202,319	1 203	3 540	4 688	1 148	1 381
24	2021	õ	5 945	202,610	1 205	0.007	0 195	0 187	226
25	2021	7	5 945	203,069	1 207	0.000	0 000	0 000	0
26	2021	8	5 945	203 456	1 210	0.000	0 000	0 000	Ô
27	2021	ă	5 945	203,320	1 209	0.000	0.011	0.011	13
28	2021	10	5.945	203,377	1,209	0.001	0.681	0 680	822
29	2021	11	5 945	203,317	1 209	5.836	12 540	6 705	8,104
30	2021	12	5 945	203,588	1 210	23 979	77 272	53 293	64.502
31	Total			200,000		611	564	(46 534)	(55 486)
32	, otal					•	001	(10001)	(001.00)
33									
34	Year	Month							Total
35									(a)=a+n
36								v	· · · · · · · · · · · · · · · · · · ·
37	2021	1							45,662
38	2021	2							518
39	2021	3							(171,118)
40	2021	4							48,834
41	2021	5							111,839
42	2021	6							194,368
43	2021	7							70,748
44	2021	8							133,546
45	2021	9							(9,290)
46	2021	10							(50,451)
47	2021	11							(42, 198)
48	2021	12							63,953
49	Total								396,409

.

WP/II-H-1 2/1 Page 5 of 8

#### PUC DOCKET NO ONCOR ELECTRIC DELIVERY COMPANY LLC MONTHLY SALES DATA TEST YEAR ENDING December 31, 2021

#### SPONSOR: D E. NELSON

			Secondary Servic SECGT10	e Greater Than 10 KW IDR SECGT10	and Non-IDR Weather Adjustn SECGT10	nent (MWH) SECGT10	SECGT10
Line	Year	Month	IDR KWH	NIDR KWH	Large KWH	IDR KWH Share	NIDR KWH Share
<del></del>	······		(a)	(b)	(c)	(d)=a/c	(e)=b/c
1	2021	1	1,351,918,368	1,998,993,921	3,350,912,289	0 403	0 597
2	2021	2	1,326,371,430	1,977,503,676	3,303,875,106	0 401	0 599
3	2021	3	1,339,560,309	2,201,181,387	3,540,741,696	0 378	0.622
4	2021	4	1,346,806,153	1,800,792,498	3,147,598,651	0 428	0.572
5	2021	5	1,406,273,540	2,029,244,473	3,435,518,013	0 409	0 591
6	2021	6	1,462,016,083	2,281,615,721	3,743,631,804	0 391	0 609
7	2021	7	1,695,733,062	2,773,542,025	4,469,275,087	0 379	0 621
8	2021	8	1,697,138,007	2,813,879,859	4,511,017,866	0 376	0 624
9	2021	9	1,692,406,091	2,861,233,955	4,553,640,046	0 372	0 628
10	2021	10	1,554,722,199	2,450,797,322	4,005,519,521	0 388	0 612
11	2021	11	1,463,865,882	2,065,732,092	3,529,597,974	0 415	0 585
12	2021	12	1,408,196,282	1,930 751,950	3.338,948,232	0 422	0 578
13	Total		17,745,007,406	27,185,268,879	44,930,276,285		
14							
15			SECGT10	SECGT10	SECGT10		
16	Year	Month	KWH Adjustment	IDR KWH Adjustment	NIDR KWH Adjustment		
17			(f)	(g)=f*d	(h)=f-g		
18							
19	2021	1	45,662	18,422	27,240		
20	2021	2	518	208	310		
21	2021	3	(171,118)	(64,739)	(106.379)		
22	2021	4	48,834	20,895	27,939		
23	2021	5	111,839	45.779	66.059		
24	2021	6	194.368	75,907	118 460		
25	2021	7	70.748	26.843	43,905		
26	2021	8	133,546	50,243	83,303		
27	2021	9	(9,290)	(3,453)	(5 837)		
28	2021	10	(50,451)	(19,582)	(30.869)		
29	2021	11	(42,198)	(17,501)	(24,697)		
30	2021	12	63,953	26,972	36 981		
31	Total		396,409	159,995	236,414		
WP/II-H-1 2/1 Page 6 of 8

55,949

#### PUC DOCKET NO ONCOR ELECTRIC DELIVERY COMPANY LLC MONTHLY SALES DATA **TEST YEAR ENDING December 31, 2021**

#### SPONSOR: D. E. NELSON

#### Primary Service Greater Than 10 KW Weather Adjustment (MWH) CDD Model CDD MWH Year Month Coefficient Actual CDD Normal CDD CDD Deviation Line Adjustment (a) (b) (c) (d)=c-b (e)=a\*d 1 2021 194 170 6 5 1 2 13 627 7 115 1,381 1 12 417 2021 194 170 6 864 5 553 1,078 2 2 2021 194 170 25 659 36 041 10 382 2.016 3 3 4 2021 4 194 170 87 529 103 375 15 846 3.077 5 2021 5 194 170 154 033 223 894 69 861 13,565 2021 194 170 323 068 416 324 93 256 18,107 6 6 2021 194 170 539 671 599 495 59 824 11 616 7 2021 194 170 544 171 631 840 87 669 17,023 8 8 2021 194 170 548 056 556 224 9 9 8 168 1,586 10 2021 10 194 170 386 999 354 876 (32 123) (6,237) 11 2021 11 194 170 181 662 151 588 (30 074) (5,840) 12 2021 12 194 170 53 943 2,858 46 608 (7 334) 288 142 (1,424) 13 Total 3,146 55,949 14 HDD Model HDD MWH 15 16 Year Month Coefficient Actual HDD Normal HDD HDD Deviation Adjustment 17 (j)=f\*i (f) (g) (h) (i)=h-g 18 19 2021 0 000 0 000 0 000 0 000 0 1 20 2021 0 000 0 000 0 000 0 000 Ó 2 21 22 2021 0 0 0 0 0 000 0 000 0 000 0 3 0.000 0 000 0.000 0 000 0 2021 4 23 2021 0 0 000 0 0 000 0.000 0 000 5 0 24 2021 6 0.000 0 000 0.000 0 0 0 0 0 0 25 2021 0 000 0.000 0.000 0.000 0 7 26 27 28 29 2021 0 000 0 000 0 000 0 000 0 8 2021 0 000 0 000 0 0 0 0 0 000 0 9 0 000 2021 0.000 0 000 0 000 10 0 11 0 000 0 0 0 0 0 000 0 0 0 0 0 n 2021 30 31 2021 12 0.000 0 0 0 0 0 0 000 0 0 0 0 0 0 Total 0 0 0 0 000 Ö 32 33 34 Year Month Total 35 (k)=e+j 36 37 38 39 2021 1,381 1 1,078 2021 2 3 2,016 2021 3,077 40 2021 4 41 2021 13,565 5 42 2021 18,107 6 43 44 45 11,616 2021 7 17,023 2021 8 1,586 2021 9 46 2021 10 (6,237) 47 2021 11 (5,840) 48 2021 12 (1,424) 49

Total

WP/II-H-1 2/1 Page 7 of 8

#### PUC DOCKET NO ONCOR ELECTRIC DELIVERY COMPANY LLC MONTHLY SALES DATA TEST YEAR ENDING December 31, 2021

#### SPONSOR: D. E. NELSON

Primary Service Greater Than 10 KW IDR and Non-IDR Weather Adjustment (MWH)									
Line	Year	Month	PRMGT10_IDR _NoSUB KWH	PRMGT10 NIDR KWH	PRMGT10 Large KWH	PRMGT10 IDR KWH Share	PRMGT10 NIDR KWH Share		
No.			(a)	(b)	(c)	(d)=a/c	(e)=b/c		
4	0001		1 100 000 400	140 100 005	1 000 404 701	0.004	0.100		
1	2021		1,190,329,420	142,162,335	1,338,491,761	0 894	0 106		
2	2021	2	1,150,822,551	136,104,227	1.280,920,778	0 894	0110		
3	2021	3	1,014,192,818	125,450,911	1,139.643,729	0 890	0.110		
4	2021	4	1,181,580,735	146,049,568	1,327,630,303	0 890	0 1 1 0		
5	2021	5	1,246,661,858	168,470,619	1,415,132,477	0 881	0.119		
6	2021	6	1,284,301,945	176,125,535	1,460,427,480	0 879	0 121		
7	2021	7	1,342,534,030	182,621,139	1,525,155,169	0 880	0 120		
8	2021	8	1,253,721,174	112,099,971	1,365,821,145	0.918	0 082		
9	2021	9	1,307,569,606	170,101,246	1,477,670.852	0 885	0 1 1 5		
10	2021	10	1,300,302,492	216,102,761	1,516,405,253	0.857	0 143		
11	2021	11	1,256,982,908	157,504,876	1,414,487,784	0 889	0.111		
12	2021	12	1,336,111,748	168,890,297	1,505,002,045	0 888	0 112		
13	Total		14,871,111,291	1,901,683,485	16,772,794,776				
14									
15			PRMGT10	PRMGT10	PRMGT10				
16	Year	Month	Large KWH Adjustment	IDR KWH Adjustment	NIDR KWH Adjustment				
17			(f)	(g)=f*d	(h)=f-g				
18									
19	2021	1	1,381	1,235	147				
20	2021	2	1,078	964	114				
21	2021	3	2,016	1,794	222				
22	2021	4	3.077	2,738	338				
23	2021	5	13,565	11,950	1,615				
24	2021	6	18,107	15,924	2,184				
25	2021	7	11,616	10.225	1.391				
26	2021	8	17 023	15,626	1.397				
27	2021	à	1 586	1.403	183				
28	2021	10	(6 237)	(5.348)	(889)				
20	2021	11	(5,840)	(5,189)	(650)				
30	2021	12	(1 424)	(1 264)	(160)				
21	Total	12	55 949	50.057	5.891				
31	iolai		55,949	50,057	3,081				

WP/II-H-1 2/1 Page 8 of 8

#### PUC DOCKET NO ONCOR ELECTRIC DELIVERY COMPANY LLC MONTHLY SALES DATA TEST YEAR ENDING December 31, 2021

#### SPONSOR: D. E. NELSON

			SUBSTATI	ON Weather Adju	stment (MWH)		
ne	Year	Month	Coefficient (a)	Actual CDD (b)	Normal CDD (c)	CDD Deviation (d)=c-b	Adjustment (e)=a*d
	2021	1	8 826	94 537	145 632	51 095	451
	2021	2	8 826	99.828	137.459	37.631	332
	2021	3	8.826	252.488	325.108	72 619	641
	2021	4	8 826	689 613	765.987	76,375	674
	2021	5	8 826	1.056 072	1,450 974	394 902	3,485
	2021	6	8.826	1,964 483	2,443.706	479 223	4,230
	2021	7	8.826	3,047.986	3,324 504	276 517	2,441
	2021	8	8.826	3,026 706	3,385 861	359 155	3,170
	2021	9	8 826	3,069.819	3,040 771	(29 048)	(256)
0	2021	10	8.826	2,261.947	2,078.758	(183.190)	(1,617)
1	2021	11	8 826	1,184.539	1,015 610	(168 929)	(1,491)
2	2021	12	8 826	492.341	394 999	(97 341)	(859)
3	Total			17,240	18,509	1,269.009	11,200
4 5			HDD Model				HDD MWH
6	Year	Month	Coefficient	Actual HDD	Normal HDD	HDD Deviation	Adjustment
7			(f)	(g)	(h)	(i)=h-g	(j)=f*i
8					-		
9	2021	1	0 0 0 0	0 000	0 000	0 000	0
)	2021	2	0 0 00	0 000	0 000	0 000	0
1	2021	3	0 0 0 0	0 0 0 0	0 000	0 000	0
2	2021	4	0 0 0 0	0 0 0 0	0 000	0 000	0
3	2021	5	0 000	0 0 0 0	0 000	0.000	0
4	2021	6	0 000	0 0 0 0	0 000	0.000	0
5	2021	7	0 0 0 0	0 000	0.000	0 000	0
6	2021	8	0 000	0 000	0 000	0.000	0
7	2021	9	0 0 0 0	0 000	0 000	0.000	0
, 8	2021	10	0 000	0.000	0.000	0.000	0
	2021	11	0 000	0,000	0 000	0 000	ő
Ś	2021	12	0,000	0 000	0 000	0.000	ő
í	Total		0000	0	0,000	0.000	<u>0</u>
5	Total			v	Ŭ	0.000	Ŷ
2							
5 A	Vear	Month					Total
•	real	WORLIN					(k)-0.0
0							(K/=0+)
7	2021	,					461
ć	2021	2					104
0	2021	4					332
9	2021	3					641
0	2021	4					674
1	2021	5					3,485
2	2021	6					4,230
3	2021	7					2,441
4	2021	8					3,170
5	2021	9					(256)
6	2021	10					(1,617)
7	2021	11					(1,491)
8	2021	12					(859)
9	Total						11,200

#### WP/II-H-1.3/1 Page 1 of 3

#### 2021 TEST YEAR DATA Oncor Electric Delivery Company LLC Unadjusted Test Year Load Data For the Test Year Ended December 31, 2021 Sponsor: D.E. Nelson

#### System Line Loss Calculation Energy Loss Factor Calculation

Line

No.			<i>.</i>
(a)	(b)	(c)	(d)
1	System Net Consumed, MWh (as Calculated page 3)		119,258,131
2			
3	Booked Sales and Energy Losses by Voltage Level, MWh		
4	(Booked Sales and Energy Losses Page 3):		
5		Energy	Booked
6		Losses	Sales
7	Substation	680,635	6,412,195
8	Primary	1,030,222	17,209,450
9	Secondary	2,002,629	<u>91,923,000</u>
10	Total	3,713,486	115,544,645
11			
12	Percent Losses Calculation Procedure		
13	Substation:		
14	Input to Distribution Substation Transformation System, MWh		119,258,131
15	Substation Losses, MWh		680,635
16	Substation Sales, MWh		<u>6,412,195</u>
17	Remainder to Distribution Primary System, MWh		112,165,301
18	Percent Losses (Line 15/Line14)		0.5707%
19	Primary:		
20	Input to Distribution Primary System, MWh		112,165,301
21	Primary Losses, MWh		1,030,222
22	Primary Sales, MWh		<u>17,209,450</u>
23	Remainder to Distribution Secondary System, MWh		93,925,629
24	Percent Losses (Line 21/Line 20)		0.9185%
25	Secondary:		
26	Input to Distribution Secondary System, MWh		93,925,629
27	Secondary Losses, MWh		2,002,629
28	Secondary Sales, MWh		91,923,000
29	Percent Losses (Line 27/Line 26)		2.1321%
30			
31	Loss Factors		
32	Loss Element by Voltage Level (1 - (Percent Losses/100):		
33	Substation		0.994293
34	Primary		0.990815
35	Secondary		0.978679
36			
37	Factor by Voltage Level :		
38	Substation (1.0/Line 33)		1.00574000
39	Primary (Line 38/Line 34)		1.01506321
40	Secondary (Line 39/Line 35)		1.03717731

#### WP/II-H-1.3/1 Page 2 of 3

#### 2021 TEST YEAR DATA Oncor Electric Delivery Company LLC Unadjusted Test Year Load Data For the Test Year Ended December 31, 2021 Sponsor: D.E. Nelson

#### System Line Loss Calculation Demand Loss Factor Calculation

Line

No.			
(a)	(b)	(c)	(d)
1	System Peak Demand, MW (as Calculated Page 3)		23,735.8
2			
3	Coincident Demand and Demand Losses, MW		
4	(Coincident Demands and Demand Losses Page 3):		
5		Demand	Coincident
6		Losses	Demand
7	Substation	150.2	766.8
8	Primary	309.3	2,197.9
9	Secondary	<u>364.6</u>	<u>19,947.0</u>
10	Total	824.1	22,911.6
11			
12	Percent Losses Calculation Procedure		
13	Substation:		
14	Input to Distribution Substation System, MW		23,735.8
15	Substation Losses, MW		150.2
16	Substation Demand, MW		766.8
17	Remainder to Distribution Primary System, MW		22,818.7
18	Percent Losses (Line 15/Line 14)		0.6330%
19	Primary:		
20	Input to Distribution Primary System, MW		22818.7
21	Primary Losses, MW		309.3
22	Primary Demand, MW		<u>2197.9</u>
23	Remainder to Distribution Secondary System, MW		20311.6
24	Percent Losses (Line 21/Line 20)		1.3554%
25	Secondary:		
26	Input to Distribution Secondary System, MW		20,311.6
27	Secondary Losses, MW		364.6
28	Secondary Demand, MW		19,947.0
29	Percent Losses (Line 27/Line 26)		1.7950%
30			
31	Loss Factors		
32	Loss Element by Voltage Level (1 - (Percent Losses/100):		
33	Substation		0.993670
34	Primary		0.986446
35	Secondary		0.982050
36			
37	Factor by Voltage Level :		
38	Substation (1.0/Line 33)		1.00637000
39	Primary (Line 38/Line 34)		1.02019752
40	Secondary (Line 39/Line 35)		1.03884525

WP/II-H-1.3/1 Page 3 of 3

### 2021 TEST YEAR DATA Oncor Electric Delivery Company LLC Unadjusted Test Year Load Data For the Test Year Ending December 31, 2021 Sponsor: D.E. Nelson

#### 2021 Analysis of System Losses

#### Calculated Losses Using 2015 Oncor Integrated Power System Loss Analysis

	MWh	MW
Retail Sales from Service Drop	91,923,000	19,946.95
Service Drop Factor *	1.00314	1.00381
Output from Secondary	92,211,638	20,022.95
Secondary Conductor Loss Factor *	1.00100	1.00189
Output from Line Transformers	92,303,850	20,060.79
Line Transformer Loss Factor *	1.01757	1.01250
Input to Line Transformers	93,925,629	20,311.55
Sales from Primary	17,209,450	2,197.90
Output from Primary Lines	111,135,079	22,509.45
Primary Line Loss Factor *	1.00927	1.01374
Output from Distribution Substations	112,165,301	22,818.73
Sales from Substations	6,412,195	766.78
Total Output from Distribution Substations	118,577,496	23,585.51
Distribution Substation Loss Factor *	1.00574	1.00637
Input to Distribution Substations	119,258,131	23,735.75
Total System Losses	3,713,486	824.12

NOTE:

2021 Annual Energy from company records and Demand at ERCOT's 2021 annual peak

\* For Loss Factors, refer to WP/II-H-1.3/2

.

.

### **ONCOR ELECTRIC DELIVERY SYSTEM**

•

۰.

2015 Analysis of System Losses

### November 2016

Second Draft 1/17/17

Prepared by:



Management Applications Consulting, Inc. 1103 Rocky Drive – Suite 201 Reading, PA 19609 Phone: (610) 670-9199 / Fax: (610) 670-9190



### MANAGEMENT APPLICATIONS CONSULTING, INC.

1103 Rocky Drive • Suite 201 • Reading, PA 19609-1157 • 610/670-9199 • fax 610/670-9190 • www.manapp.com

January 17, 2017

Mr. \_\_\_\_\_ Title Oncor Electric Delivery System Street City, ST Zip

#### RE: 2015 LOSS ANALYSIS

Dear Mr. \_\_\_\_:

Transmitted herewith are the results of the 2015 Analysis of System Losses for the Oncor Electric Delivery System's (Oncor) power system. Our analysis develops cumulative expansion factors (loss factors) for both demand (peak/kW) and energy (average/kWh) losses by discrete voltage levels applicable to metered sales data. Table 1 of the Executive Summary presents the results and appropriate loss factors to apply to metered load research or sales data for adjustment to system input.

On behalf of MAC, we appreciate the opportunity to assist you in performing the loss analysis contained herein. The level of detailed load research and sales data by voltage level, coupled with a summary of power flow data and power system model, forms the foundation for determining reasonable and representative power losses on the Oncor system. Our review of these data and calculated loss results support the proposed loss factors as presented herein for your use in various cost of service, rate studies, and demand analyses.

Should you require any additional information, please let us know at your earliest convenience.

Sincerely,

Tree & Inlearned

Paul M. Normand Principal

Enclosure PMN/rjp

### TABLE OF CONTENTS

1.0	EXECUTIVE SUMMARY	1
2.0	INTRODUCTION	6
2.	1 Conduct of Study	6
2.2	2 Electric Power Losses	. 7
2.3	3 Loss Impacts from Distributed Generation (DG)	8
2.4	4 Description of Model	. 8
3.0	METHODOLOGY	9
3.	1 Background	9
3.2	2 Calculations and Analysis	11
	3.2.1 Transmission Systems	11
	3.2.2 Transformers	1
	3.2.3 Distribution System	12
4.0	DISCUSSION OF RESULTS	13

Appendix A - Results of Oncor Electric Delivery System 2015 Loss Analysis

Appendix B - Discussion of Hoebel Coefficient

.

**m**(

### 1.0 EXECUTIVE SUMMARY

This report presents Oncor Electric Delivery System's (Oncor) 2015 Analysis of System Losses for the power systems as performed by Management Applications Consulting, Inc. (MAC). The study developed separate demand (kW) and energy (kWh) loss factors for each voltage level of delivery service in the power system for Oncor. The cumulative loss factor results by voltage level, as presented herein, can be used to adjust metered kW and kWh sales data for losses in performing cost of service studies, determining voltage discounts, and other analyses which may require a loss adjustment.

The procedures used in the overall loss study emphasized the use of "in house" resources where possible. To this end, extensive use was made of the Company's ERCOT peak hour MW flow data and transformer plant investments in the model. In addition, measured and estimated load data provided a means of calculating reasonable estimates of losses by using a "top-down" and "bottom-up" procedure. In the "top-down" approach, losses through and including distribution substations, were calculated along with conductor and transformer loss estimates, and metered sales.

Our analyses began with system MW loads and losses at the input into the distribution substation system are known with reasonable accuracy. Estimated and actual Company load data provided the starting point for performing a "bottom-up" approach for calculating the remaining distribution losses. Basically, this "bottom-up" approach develops line loadings by first determining loads and losses at each level beginning at a customer's meter service entrance and then going through secondary lines, line transformers, primary lines and finally distribution substation which is the input level for this study. These distribution Substation loadings for reasonableness prior to finalizing the loss factors. An overview of the loss study is shown on Figure 1.

The load research data provided the starting point for performing a "bottom-up" approach for estimating the remaining distribution losses. These distribution system loads and associated losses are then compared to the initial calculated input into Distribution Substation loadings for reasonableness prior to finalizing the loss factors.

Table 1, below, provides the final results from Appendix A for the 2015 calendar year. Exhibits 8 and 9 of Appendix A present a more detailed analysis of the final calculated summary results of losses by voltage segments and delivery service level in the power system. These Table 1 cumulative loss expansion factors are applicable only to metered sales at the point of receipt for adjustment to the power system's input level which is substations in this study.

## TABLE 1 Loss Factor Multipliers at Metered Sales Level, Calendar Year 2015

Voltage Leve <u>of Service</u>	9	Oncor <u>Delivery System</u>		
Demand (kW)				
Transmission		N/A		
Primary Lines		1.02019		
Secondary		1.03885		
Energy (kWh)				
Transmission		N/A		
Primary Lines		1.01506		
Secondary		1.03717		
Losses –	MWH	3.25%		
Net System Input <sup>1</sup>	MW	3.56%		
Losses -	MWH	3.36%		
Net System Output <sup>2</sup>	MW	3.69%		

#### **Composite System Loss Factors at Metered Sales Level**

System	MWH	1.03362
	MW	1.03688

The net system input shown in Table 1 represents the MWh losses of 3.25% for the total Oncor load using calculated losses divided by the associated input energy to the system. The 3.36% represents the same losses using system output instead of input as a reference. The net system output reference shown in Table 1 represents MWh losses of 3.36% and MW losses of 3.69%. These results use the appropriate total losses for each but are divided by system output or sales. These calculations are all based on the data and results shown on Exhibits 1, 7 and 9 of the study.

Due to the very nature of losses being primarily a function of equipment loading levels for a peak load hour, the loss factor derivations for any voltage level must consider both the load at that level plus the loads from lower voltages and their associated losses. As a result, cumulative losses on losses equates to additional load at higher levels along with future changes (+ or -) in loads throughout the power system. It is therefore important to recognize that losses are multiplicative in nature (future) and not additive (test year only) for all future years to ensure total recovery based on prospective fixed loss factors for each service voltage.

<sup>&</sup>lt;sup>2</sup> Net system output uses losses divided by output or sales data as a reference (excludes losses).



<sup>&</sup>lt;sup>1</sup> Net system input equals firm sales plus losses. See Appendix A, Exhibit I, for their calculations.

The derivation of the cumulative loss factors shown in Table 1 have been detailed for all electrical facilities in Exhibit 9, page 1 for demand and page 2 for energy. Beginning on line 1 of page 1 (demand) under the secondary column, metered sales are adjusted for service losses on lines 3 and 4. This new total load (with losses) becomes the load amount for the next higher facilities of secondary conductors and their loss calculations. This process is repeated for all the installed facilities until the secondary sales are at the input level (line 45). The final loss factor for all delivery voltages using this same process is shown on line 46 and Table 1 for demand. This procedure is repeated in Exhibit 9, page 2, for the energy loss factors.

The loss factor calculation is simply the input required (line 45) divided by the metered sales (line 43).

An overview of the loss study is shown on Figure 1 on the next page. Figure 2 simply illustrates the major components that must be considered in a loss analysis.



,









### 2.0 INTRODUCTION

This report of the 2015 Analysis of System Losses for the Oncor Electric Delivery System provides a summary of results, conceptual background or methodology, description of the analyses, and input information related to the study.

### 2.1 Conduct of Study

Typically, between five to ten percent of the total peak hour MW and annual MWH requirements of an electric utility is lost or unaccounted for in the delivery of power to customers from the Transmission level through and including secondary voltage levels at the meter. Investments must be made in facilities which support the total load which includes losses or unaccounted for load. Revenue requirements associated with load losses are an important concern to utilities and regulators in that customers must equitably share in all of these cost responsibilities. Loss expansion factors by voltage level are the mechanism by which customers' metered demand and energy data are mathematically adjusted to the generation or input level (point of reference) when performing cost and revenue calculations.

An acceptable accounting of losses can be determined for any given time period using available engineering, system, and customer data along with empirical relationships. This loss analysis for the delivery of demand and energy utilizes such an approach. A microcomputer loss model<sup>3</sup> is utilized as the vehicle to organize the available data, develop the relationships, calculate the losses, and provide an efficient and timely avenue for future updates and sensitivity analyses. Our procedures and calculations rely on numerous databases that include customer statistics and power system investments at various voltage levels of service.

Company personnel performed most of the data gathering and data processing efforts and checked for reasonableness. MAC provided assistance as necessary to construct databases, transfer files, perform calculations, and check the reasonableness of results. Efforts in determining the data required to perform the loss analysis centered on information which was available from existing studies or reports within the Company. From an overall perspective, our efforts concentrated on five major areas:

- 1. System information concerning ERCOT peak demand and annual energy requirements by voltage level of service using metered data and load research,
- 2. Substation loads at their input (including losses),
- 3. Distribution system primary and secondary loss calculations,
- 4. Derivation of fixed and variable losses by voltage level, and
- 5. Development of final cumulative expansion factors at each voltage for peak demand (kW) and annual energy (kWh) requirements at the point of delivery (meter).

<sup>&</sup>lt;sup>3</sup>Copyright by Management Applications Consulting, Inc.



#### 2.2 Electric Power Losses

Losses in power systems consist of primarily technical losses with a much smaller level of non-technical losses.

#### **Technical Losses**

Electrical losses result from the transmission of energy over various electrical equipment. The largest component of total losses during peaking conditions is power dissipation as a result of varying loading conditions and are oftentimes called load losses which are mostly related to the square of the current ( $I^2R$ ). These peak hour losses can be as high as 60% to 75% of all technical losses during peak loading conditions. The remaining losses are called no-load and represent essentially fixed (constant) energy losses throughout the year. These no-load losses represent energy required to energize various electrical equipment regardless of their loading levels over the entire year. The major portion of these no-load losses consists of core or magnetizing energy related to installed transformers throughout the power system and generates the major component of annual losses on any distribution system.

The following Table 2 summarizes the unadjusted fixed and variable losses by major functional categories from Exhibit 5 of Appendix A:

	DEMAND (PEAK HOUR) – MW			ENERGY (A	<u>ENERGY (ANNUAL AVERAGE) – MWH</u>			
	FIXED	VARIABLE	TOTAL	FIXED	VARIABLE	TOTAL		
TRANS (%)	0.00	0.00	0.00 N/A	0	0	0 N/A		
SUBTRANS (%)	0.00	0.00	0.00 N/A	0	0	0 N/A		
DIST SUBS	49.67	93.76	143.43	341,427	265,963	607,390		
(%)	34.63%	65.37%	100.00%	56.21%	43.79%	100.00%		
PRIMARY	0.61	298.94	299.56	5,350	936,888	942,238		
(%)	0.20%	99.80%	100.00%	0.57%	99.4 <b>3</b> %	100.00%		
SECONDARY	163.45	199.98	363.42	1,431,800	481,367	1,913,167		
(%)	44.97%	55.03%	100.00%	74.84%	25.16%	100.00%		
TOTAL SYS	213,72	592.68	806.40	1,778,576	1,684,217	3,462,794		
(%)	26.50%	73.50	100.00%	51.36%	48.64%	100.00%		
TOTAL DIST	213.72	592.68	806.40	1,778,576	1,684,217	3,462,794		
(%)	26.50%	73.50%	100.00%	51.36%	48.64%	100.00%		

#### TABLE 2



### Non-Technical Losses

These are unaccounted for energy losses that are related to energy theft, metering, non-payment by customers, and accounting errors. Losses related to these areas are generally very small and can be extremely difficult and subjective to quantify. Our efforts generally do not develop any meaningful level because we assume that improving technology and utility practices have minimized these amounts.

### 2.3 Loss Impacts from Distributed Generation (DG)

The impacts of losses on a power system from the installation of various DG facilities will depend somewhat on the penetration level, type of installations and location on a circuit. Based on the results presented in Table 2 of this loss study, the impacts are significantly different from looking at any single peak load hour versus the potential impacts over all hours of an entire year. Use of a typical uniform loss factor(s) for each voltage level may require additional consideration to recognize that a reduced consumption level could have little or no impact due to the recovery requirements for the high level of fixed losses over the entire hourly electric grid condition for any DG location.

### 2.4 Description of Model

The loss model is a customized applications model, constructed using the Excel software program. Documentation consists primarily of the model equations at each cell location. A significant advantage of such a model is that the actual formulas and their corresponding computed values at each cell of the model are immediately available to the analyst.

A brief description of the three (3) major categories of effort for the preparation of each loss model is as follows:

- Main sheet which contains calculations for all primary and secondary losses, summaries of all conductor and transformer calculations from other sheets discussed below, output reports and supporting results.
- Transformer sheet which contains data input and loss calculations for each distribution substation from high voltage transformer. Separate iron and winding losses are calculated for each transformer by identified type.
- Conductor sheet containing summary data by major voltage level as to circuit miles, loading assumptions, and kW and kWh loss calculations. This area of the model was not used as this loss study did not consider high voltage facilities.



### 3.0 METHODOLOGY

#### 3.1 Background

The objective of a Loss Study is to provide a reasonable set of energy (average) and demand (peak) loss expansion factors which account for system losses associated with the transmission and delivery of power to each voltage level over a designated period of time. The focus of this study is to identify the difference between total energy inputs and the associated sales with the difference being equitably allocated to all delivery levels. Several key elements are important in establishing the methodology for calculating and reporting the Company's losses. These elements are:

- Selection of voltage level of services,
- Recognition of losses associated with conductors, transformations, and other electrical equipment/components within voltage levels,
- · Identification of customers and loads at various voltage levels of service,
- Review of generation or net power supply input at each level for the test period studied, and
- Analysis of kW and kWh sales by voltage levels within the test period.

The three major areas of data gathering and calculations in the loss analysis were as follows:

- 1. System Information (monthly and annual)
  - MW at the distribution substations and metered MWH sales.
  - Coincident peak (ERCOT) estimates and net power supply input from all sources and voltage levels.
  - Customer load data estimates from available load research information, adjusted MWH sales, and number of customers in the customer groupings and voltage levels identified in the model.
  - System default values, such as power factor, loading factors, and load factors by voltage level.



- 2. Distribution System
  - Distribution Substations Data was developed for modeling each substation as to its size and loading. Loss calculations were prepared from this data to determine load and no load losses separately for each transformer.
  - Primary lines Line loading and loss characteristics for several representative primary circuits were obtained from the Company. These loss results developed kW loss per MW of load and a composite average was calculated to derive the primary loss estimate.
  - Line transformers Losses in line transformers were based on each customer service group's size, as well as the number of customers per transformer. Accounting and load data provided the foundation with which to model the transformer loadings and to calculate load and no load losses.
  - Secondary circuits Typical secondary circuits were estimated for conductor sizes, lengths, loadings, and customer penetration for residential and small general service customers based on data provided by the Company.
  - Services Typical services were estimated for each secondary service class of customers identified in the study with respect to type, length, and loading.
  - Meters Estimated one-hour losses were developed for each customer class and voltage level.

The loss analysis was thus performed by constructing the model in segments and subsequently calculating the composite until the constraints of peak demand and energy were met:

- Information as to the physical characteristics and loading of each transformer and conductor segment was modeled.
- Conductors, transformers, and distribution were grouped by voltage level, and unadjusted losses were calculated.
- The loss factors calculated at each voltage level were determined by "compounding" the per-unit losses. Equivalent sales at the supply point were obtained by dividing sales at a specific level by the compounded loss factor to determine losses by voltage level.



- The resulting demand and energy loss expansion factors were then used to adjust all sales to the generation or input level in order to estimate the difference.
- Reconciliation of kW and kWh sales by voltage level was accomplished by adjusting the initial loss factor estimates until the mismatch was eliminated.

### 3.2 Calculations and Analysis

This section provides a discussion of the input data, assumptions, and calculations performed in the loss analysis. Specific appendices have been included in order to provide documentation of the input data utilized in the model.

#### 3.2.1 Transmission Systems

Not applicable.

### 3.2.2 Transformers

The transformer loss analysis required several steps in order to properly consider the characteristics associated with various transformer types; such as, distribution substations and line transformers. In addition, further efforts identified both iron and winding losses within each of these transformer types in order to obtain reasonable peak (kW) and average energy (kWh) losses. While iron losses were considered essentially constant for each hour, recognition had to be made for the varying degree of winding losses due to hourly equipment loadings.

Standardized test data tables were used to represent no load information (fixed) and full load (variable) losses for different sizes of transformers. This test data was incorporated into the loss model to develop relationships representing winding and iron or core losses for the transformer loss calculation as discussed in Section 4.0.

The remaining miscellaneous losses considered in the loss study consisted of several areas which do not lend themselves to any reasonable level of modeling for estimating their respective losses and were therefore lumped together into a single loss factor of 0.10%. The typical range of values for these losses is from 0.10% to 0.25%, and we have assumed the lower value to be conservative at this time. The losses associated with this loss factor include bus bars, unmetered station use, grounding transformers, cooling fans, heating and air conditioning requirements, and other remaining station use requirements.



#### 3.2.3 Distribution System

The load data at the substation and customer level, coupled with primary and secondary network information, was sufficient to model the distribution system in adequate detail to calculate losses.

#### Primary Lines

Primary line loadings take into consideration the available distribution load along with the actual customer loads including losses. Primary line loss estimates were prepared by the Company for use in this loss study. These estimates considered loads per substation, voltage levels, loadings, total circuit miles, wire size, and single- to three-phase investment estimates. All of these factors were considered in calculating the actual demand (kW) and energy (kWh) for the primary system.

#### Line Transformers

Losses in line transformers were determined based on typical transformer sizes for each secondary customer service group and an estimated or calculated number of customers per transformer. Accounting records and estimates of load data provided the necessary database with which to model the loadings. These calculations also made it possible to determine separate winding and iron losses for distribution line transformers, based on a table of representative losses for various transformer sizes.

#### Secondary Line Circuits

A calculation of secondary line circuit losses was performed for loads served through these secondary line investments. Estimates of typical conductor sizes, lengths, loadings and customer class penetrations were made to obtain total circuit miles and losses for secondary. Customer loads which do not have secondary line requirements were also identified so that a reasonable estimate of losses and circuit miles of these investments could be made.

#### Service Drops and Meters

Service drops were estimated for each secondary customer reflecting conductor size, length and loadings to obtain demand losses. A separate calculation was also performed using customer maximum demands to obtain kWh losses. Meter loss estimates were also made for each customer and incorporated into the calculations of kW and kWh losses included in the Summary Results.



#### 4.0 DISCUSSION OF RESULTS

A brief description of each Exhibit provided in Appendix A follows:

#### Exhibit 1 - Summary of Company Data

This exhibit reflects system information used to determine percent losses and a detailed summary of kW and kWh losses by voltage level. The loss factors developed in Exhibit 7 are also summarized by voltage level.

#### Exhibit 2 - Summary of Conductor Information

A summary of MW and MWH load and no load losses for conductors by voltage levels is presented. The sum of all calculated losses by voltage level is based on input data information provided in Appendix A. Percent losses are based on equipment loadings.

#### Exhibit 3 - Summary of Transformer Information

This exhibit summarizes transformer losses by various types and voltage levels throughout the system. Load losses reflect the winding portion of transformer losses while iron losses reflect the no load or constant losses. MWH losses are estimated using a calculated loss factor for winding and the test year hours times no load losses.

#### Exhibit 4 – Summary of Losses Diagram (2 Pages)

This loss diagram represents the inputs and output of power at system peak conditions. Page 1 details information from all points of the power system and what is provided to the distribution system for primary loads. This portion of the summary can be viewed as a "top down" summary into the distribution system.

Page 2 represents a summary of the development of primary line loads and distribution substations based on a "bottom up" approach. Basically, loadings are developed from the customer meter through the Company's physical investments based on load research and other metered information by voltage level to arrive at MW and MVA requirements during peak load conditions by voltage levels.

#### Exhibit 5 - Summary of Sales and Calculated Losses

Summary of Calculated Losses represents a tabular summary of MW and MWH load and no load losses by discrete areas of delivery within each voltage level. Losses have been identified and are derived based on summaries obtained from Exhibits 2 and 3 and losses associated with meters, capacitors and regulators.



### Exhibit 6 - Development of Loss Factors, Unadjusted

This exhibit calculates demand and energy losses and loss factors by specific voltage levels based on sales level requirements. The actual results reflect loads by level and summary totals of losses at that level, or up to that level, based on the results as shown in Exhibit 5. Finally, the estimated values at generation are developed and compared to actual generation to obtain any difference or mismatch.

### Exhibit 7 – Development of Loss Factors, Adjusted

The adjusted loss factors are the results of adjusting Exhibit 6 for any difference. All differences between estimated and actual are prorated to each level based on the ratio of each level's total load plus losses to the system total. These new loss factors reflect an adjustment in losses due only to the kW and kWh mismatch.

#### Exhibit 8 - Adjusted Losses and Loss Factors by Facility

These calculations present an expanded summary detail of Exhibit 7 for each segment of the power system with respect to the flow of power and associated losses from the receipt of energy at the meter to the generation for the Oncor power system.

#### Exhibit 9 - Summary of Losses by Delivery Voltage

These calculations present a reformatted summary of losses presented in Exhibits 7 and 8 by power system delivery segment as calculated by voltage level of service based on reported metered sales.



### Appendix A

### Results of 2015 Oncor Integrated Power System Loss Analysis



#### ONCOR

EXHIBIT 1

#### SUMMARY OF COMPANY DATA

ONCOR ERCOT PEAK INPUT	22,679	MW
ANNUAL SYSTEM INPUT	106,435,000	MWH
ANNUAL SALES OUTPUT	102,972,872	MWH
SYSTEM LOSSES @ INPUT SYSTEM LOSSES @ OUTPUT	3,462,128 3,462,128	or 3.25% or 3.36%
SYSTEM LOAD FACTOR	53.6%	

#### SUMMARY OF LOSSES - OUTPUT RESULTS

SERVICE	KV	N	4W	% TOTAL	MWH	% TOTAL
TRANS	345,138,69	0.0	Input	0.00%	0	0.00%
		·····	0.00%		0.00%	
PRIM SUBS	25 TO 4	143.5		17.79%	607,273	17.54%
			0.63%		0.57%	
PRIMARY	25 TO 4	299.7		37.15%	942.056	27.21%
			1.32%		0.89%	
SECONDARY	120/240,to,477	7 363.6		45.07%	1,912,799	55.25%
			1.60%		1.80%	1
TOTAL		806.7		100.00%	3,462,128	100.00%
			3.56%		3.25%	

#### SUMMARY OF LOSS FACTORS

SERVICE	КV	CUMM DEMAN	ULATIVE SALES D (Peak)	EXPANSION F	NSION FACTORS ENERGY (Annual)	
		đ	1/d	e	1/e	
TOT TRANS	345,138,69	1.00000	1.00000	1.00000	1.00000	
PRIM SUBS	25 TO 4	1.00637	0.99367	1.00574	0.99429	
PRIMARY	25 TO 4	1.02019	0.98021	1.01506	0.98517	
SECONDARY	120/240,to,477	1.03885	0.96261	1.03717	0.96416	

.

.

#### SUMMARY OF CONDUCTOR INFORMATION

DESCRIPTION			CIRCUIT LOAD		LOAD	ING	MW	LOSSES				MWH LOSSES		
				MILES	% RATIN	1G	LOAD	NO LOAD	TOTAL		LOAD	NO LOAD	TOTAL	
BULK	7	765 KV (	OR GREAT	TER			9 # 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4			ł				
TIE LINES				0.0	)	0.00%	0.000	0.000	0.000		0	0	0	
BULK TRANS SUBTOT				<u>0.0</u> 0.0		0.00%	<u>0.000</u> 0.000	<u>0.000</u> 0.000	<u>0.000</u> 0.000		<u>0</u> 0	<u>0</u> 0	<u>0</u> 0	
TRANS		69 KV	то	345.00	кv								V-+	
TIE LINES				(	0	0.00%	0.000	0.000	0.000		0	0	0	
TRANS1	3	345 KV		0.0	)	0.00%	0.000	0.000	0.000		0	0	0	
TRANS2 SUBTOT	<u>69, 1</u>	<u>138 KV</u>		<u>0.0</u> 0.0	<u>)</u> )	0.00%	<u>0.000</u> 0.000	<u>0.000</u> 0.000	<u>0.000</u> 0.000		0 0	<u>0</u> 0	<u>0</u> 0	
SUBTRANS	NA	ĸv	то	NA	κv							***********************		
TIE LINES				(	0	0.00%	0.000	0.000	0.000		0	0	0	
SUBTRANS1	NA	KV		0.0	)	0.00%	0.000	0.000	0.000		0	0	0	
SUBTRANS2	NA	KV		0.0	)	0.00%	0.000	0.000	0.000		0	0	0	
SUBTRANS3 SUBTOT	NA	<u>KV</u>		<u>0.0</u> 0.0	<u>)</u>	<u>0.00%</u>	<u>0.000</u> 0.000	<u>0.000</u> 0.000	<u>0.000</u> 0.000		0 0	0 0	<u>0</u> 0	
PRIMARY LINES				73,142	2		298.542	0.865	299.407		935,904	7,578	943,483	
SECONDARY LINES				25,260	)		37.758	0.000	37.758		87,940	0	87,940	
SERVICES				48,694	4		63.739	12.039	75.777		170,703	105,458	276,161	
TOTAL				147,096	 3	·	400.038	12.904	412.942		1,194,547	113,036	1,307,583	

EXHIBIT 2

DESCRIPTION BULK STEP-UP BULK - BULK BULK - TRANS1 BULK - TRANS2	1	KV CAPA VOLTAGE	ACITY MVA	NUMBER	AVERAGE	LOADING	841/0		MMU OSSES -				
BULK STEP-UP BULK - BULK BULK - TRANS1 BULK - TRANS2		NA		INMIGRININ	SIZE	%	LOAD	LOAD	NO LOAD	TOTAL	LOAD	NO LOAD	TOTAL
BULK - BULK BULK - TRANS1 BULK - TRANS2		111 1	0.0	0	0.0	0.00%	0	0.000	0.000	D 000	0	0	n
BULK - TRANS1 BULK - TRANS2		NA	0.0	ñ	0.0	0.00%	õ	0.000	0,000	0.000	ő	0	0 0
BULK - TRANS2		NA	0.0	õ	0.0	0.00%	ñ	0.000	0.000	0 000	ň	ñ	0
		NA	0.0	Ō	0.0	0 00%	ō	0.000	0.000	0.000	õ	õ	Č
TRANS1 STEP-UI	Р	NA	0.0	0	0.0	0.00%	0	0.000	0.000	0.000	0	0	o
TRANS1 - TRANS	52	NA	0.0	0	0.0	0.00%	٥	0.000	0,000	0.000	0	0	0
TRANS1-SUBTRA	ANS1	NA	0.0	0	0.0	0.00%	0	0.000	0.000	0.000	0	0	0
TRANS1-SUBTRA	ANS2	NA	0.0	0	0.0	0.00%	0	0.000	0.000	0.000	0	0	0
TRANS1-SUBTRA	ANS3	NA	0.0	0	0.0	0.00%	0	0.000	0.000	0.000	0	0	a
TRANS2 STEP-U	Р	NA	0.0	0	0.0	0.00%	D	0.000	0.000	0.000	0	0	0
TRANS2-SUBTRA	ANS1	NA	0.0	G	0.0	0.00%	0	0.000	0.000	0.000	0	0	0
TRANS2-SUBTRA	ANS2	NA	0.0	0	0.0	0.00%	0	0.000	0.000	0.000	0	0	0
TRANS2-SUBTRA	ANS3	NA	0.0	D	0.0	0.00%	Û	0.000	0.000	0.000	0	Ű	0
SUBTRAN1 STEF	P-UP	NA	0.0	0	0.0	0.00%	0	0.000	0.000	0.000	0	0	0
SUBTRAN2 STEF	P-UP	NA	0.0	0	0.0	0.00%	0	0.000	0.000	0.000	0	0	0
SUBTRAN3 STEF	P-UP	NA	0.0	0	0.0	0.00%	0	0.000	0.000	0.000	0	0	0
SUBTRAN1-SUB"	TRAN2	NA	0.0	0	0.0	0.00%	0	0.000	0.000	0.000	0	0	0
SUBTRAN1-SUBT	TRAN3	NA	0.0	0	0.0	0.00%	0	0.000	0 000 0	0.000	o	0	0
SUBTRAN2-SUB	TRAN3	NA	0.0	0	0.0	0.00%	0	0.000	0.000	0.000	0	0	0
						DI:	STRIBUTION S	JBSTATIONS					
TRANS1 -	NA	25,21.6	0.0	0	0.0	0.00%	0	0.000	0.000	0.000	0	0	0
TRANS1 -	NA	13.2,12.5	0.0	0	0.0	0.00%	0	0.000	0.000	0.000	0	0	0
TRANS1 -	NA	4.16	0,0	٥	0.0	0.00%	0	0.000	0.000	0.000	0	0	٥
TRANS2 - 34	45,138,69	25,21.6	8,592.0	319	26.9	89.14%	7,659	30.580	14.409	44.989	102,494	95,074	197,567
TRANS2 - 34	45,138,69	13.2,12.5	17,575.0	1149	15.3	86.73%	15,244	62.910	34.324	97.234	162,770	238,681	401,451
TRANS2 - 34	45,138,69	4.16	480.0	95	5.1	25.59%	123	0.270	0.933	1.203	699	7,672	8,371
SUBTRAN1-	NA	25,21.6	0.0	0	0.0	0.00%	0	0.000	0.000	0.000	0	0	0
SUBTRAN1-	NA	13.2,12.5	0.0	0	0.0	0.00%	0	0.000	0 000	0.000	0	0	0
SUBTRAN1-	NA	4.16	0.0	0	0.0	0.00%	0	0.000	0.000	0.000	0	0	0
SUBTRAN2-	NA	25,21.6	0.0	0	0.0	0.00%	0	0.000	0.000	0.000	0	0	0
SUBTRAN2-	NA	13.2,12.5	0.0	0	0.0	0.00%	O	0.000	0.000	0.000	0	0	0
SUBTRAN2-	NA	4.16	0.0	0	0.0	0.00%	0	0,000	0.000	0.000	U	U	U
SUBTRAN3-	NA	25,21.6	0.0	0	0.0	0.00%	0	0.000	0.000	0.000	0	0	0
SUBTRAN3-	NA	13.2,12.5	0.0	0	0.0	0.00%	0	0.000	0.000	0.000	0	0	0
SUBTRAN3-	NA	4.16	0.0	0	0.0	0.00%	0	0,000	0.000	0.000	0	0	0
PRIMARY - PRIN	MARY		188.5	65	2.9	55.00%	104	0.402	0.356	0.759	984	3,121	4,104
LINE TRANSFRM	MR		57,484.0	958,829	60.0	38.61%	22,194	98.479	151.409	249.888	222,724	1,326,342	1,549,066
TOTAL		=	84 320	960 457		*************	=		201.431	394.072	489.670	1,670.890	2,160.560

12 09 PM

٠

SUMMARY OF LOSSES DIAGRAM - DEMAND MODEL - SYSTEM PEAK





ONCOR 15 LOSS A

SUMMARY of SALES and CALCULATED LOSSES

·····												
LOSS # AND LEVEL	MW LOAD	NO LOAD +	LOAD =	TOT LOSS	EXP	CUM	MWH LOAD	NO LOAD +	LOAD = T	OT LOSS	EXP	CUM
l					FACTOR	EXP FAC					FACTOR	EXP FAC
1 BULK XFMMR	0.0	0.00	0.00	0.00	0.000000	0.000000	0	0	0	0	0	0
2 BULK LINES	0.0	0.00	0.00	0.00	0.000000	0.000000	0	0	0	0	0.0000000	0.0000000
3 TRANS1 XFMR	0.0	0.00	0.00	0.00	0.000000	0.000000	0	0	0	0	0.0000000	0.0000000
4 TRANS1 LINES	0.0	0.00	0.00	0.00	0.000000	0.000000	0	0	0	0	0.0000000	0.0000000
5 TRANS2TR1 SD	0.0	0.00	0.00	0.00	0.000000	0.000000	0	0	0	0	0.0000000	0.0000000
6 TRANS2BLK SD	0.0	0.00	0.00	0.00	0.000000	0.000000	0	0	0	0	0.0000000	0.0000000
7 TRANS2 LINES	0.0	0.00	0.00	0.00	0.000000	0.000000	0	0	0	0	0.0000000	0.0000000
TOTAL TRAN	0.0	0.00	0 00	0.00	1.000000	1.000000	0	0	0	0	1.0000000	1.0000000
8 STR1BLK SD												
9 STR1T1 SD	0.0	0.00	0,00	0.00	0.000000	0.000000	0	0	0	0	0.0000000	0.0000000
10 SRT1T2 SD	0.0	0.00	0.00	0.00	0.000000	0.000000	0	0	0	0	0.0000000	0.0000000
11 SUBTRANS1 LINES	0.0	0.00	0.00	0.00	0.000000	0.000000	0	0	0	0	0.0000000	0.0000000
12 STR2T1 SD	0.0	0.00	0.00	0.00	0 000000	0 000000	0	0	n	0	0.000000	0.000000
13 STR2T2 SD	0.0	0.00	0.00	0.00	0.000000	0.000000	0	ő	n n	0	0.0000000	0.0000000
14 STD291 CD	0.0	0.00	0.00	0.00	0.000000	0.000000	0	0	0	0	0.0000000	0.0000000
15 CURTOANCO LINES	0.0	0.00	0.00	0.00	0.000000	0.000000	0	0	0	0	0.0000000	0.0000000
10 OUDTRAINOZ LINEO	0.0	0.00	0.00	0.00	0.000000	0.000000	0	Ū	Ū	U	0.0000000	0.000000
16 STR3T1 SD	0.0	0.00	0.00	0.00	0.000000	0.000000	0	0	0	0	0.0000000	0.0000000
17 STR3T2 SD	0.0	0.00	0.00	0.00	0.000000	0.000000	0	0	0	0	0.0000000	0.0000000
18 STR3S1 SD	0.0	0.00	0.00	0.00	0.000000	0.000000	0	0	0	0	0.0000000	0.0000000
19 STR3S2 SD	0.0	0.00	0.00	0.00	0.000000	0.000000	0	0	0	0	0.0000000	0.0000000
20 SUBTRANS3 LINES	0.0	0.00	0.00	0.00	0.000000	0.000000	0	0	0	0	0.0000000	0.0000000
21 SUBTRANS TOTAL	0.0	0.00	0.00	0.00	0.000000	0.000000	0	0	0	0	0.0000000	0.000000
DISTRIBUTION SUBST												
TRANS1	0.0	0.00	0.00	0.00	0.000000	0.000000	0	0	0	0	0.0000000	0.0000000
TRANS2	22,678.7	49.67	93.76	143.43	1.006364	1.006364	106,435,666	341,427	265,963	607,390	1.0057394	1.0057394
SUBTR1	0.0	0.00	0.00	0.00	0.000000	0,000000	0	0	0	0	0.0000000	0.0000000
SUBTR2	0.0	0.00	0.00	0.00	0.000000	0.000000	0	0	0	0	0.0000000	0.0000000
SUBTR3	0.0	0.00	0.00	0.00	0.000000	0.000000	0	0	0	0	0.0000000	0.0000000
WEIGHTED AVERAGE	22.678.7	49.67	93.76	143.43	1.006364	1.006364	106,435,666	341,427	265,963	607,390	1.0057394	1.0057394
PRIMARY INTRCHNGE	0.0				0.000000		0				0.0000000	
PRIMARYLINES	22.115.2	0.61	298.94	299.56	1.013731	1.020183	102,610,160	5,350	936,888	942,238	1.0092678	1.0150604
LINE TRANSF	20,246.9	151,41	98.48	249.89	1.012496	1.032932	89,713,392	1,326,342	222,724	1,549,066	1.0175702	1.0328952
SECONDARY	19,997.0	0.00	37.76	37.76	1.001892	1.034886	88,164,325	0	87,940	87,940	1.0009984	1.0339265
SERVICES	19,959.2	12.04	63.74	75.78	1.003811	1.038830	88,076,386	105,458	170,703	276,161	1.0031453	1.0371785
			500.00	======================================				4 770 570	4 694 347	2 462 704		
TOTAL SYSTEM	1	213.72	592.68	806.40				1,//0,5/6	1,004,217	3,402,194		

WP/II-H-1.3/2 PAGE 24 OF 32

•

4758

EXHIBIT 5

EXHIBIT 6

#### ONCOR 2015 LOSS ANALYSIS

#### DEVELOPMENT of LOSS FACTORS UNADJUSTED DEMAND

LOSS FACTOR CUSTOMER CALC LOSS SALES MW CUM PEAK EXPANSION SALES MW TO LEVEL @ SUB INPUT LEVEL FACTORS d b 1/d а С **BULK LINES** 0.0 0.0 0.0 0.00000 0.00000 TRANS SUBS 0.0 0.0 0.0 0.00000 0.00000 TRANS LINES 0.0 0.0 0.0 1.00000 1.00000 TOTAL TRANS 0.0 0.0 0.0 0.00000 0.00000 SUBTRANS 0.0 1.00000 0.0 0.0 1.00000 PRIM SUBS 420.0 2.7 422.7 1.00636 0.99368 **PRIM LINES** 1,568.8 0.98022 31.7 1,600.4 1.02018 SECONDARY 19,883.5 <u>772.1</u> 20,655.5 1.03883 0.96262 TOTALS 806.4 21,872.3 22,678.7

#### DEVELOPMENT of LOSS FACTORS UNADJUSTED ENERGY

LOSS FACTOR LEVEL	CUSTOMER SALES MWH	CALC LOSS SALES MWH TO LEVEL @ SUB INPUT		CUM ANNUAL I FACTORS	EXPANSION
	а	b	<u> </u>	d	1/d
BULKLINES	0	0	0	0.00000	0.00000
TRANS SUBS	ŏ	Ő	õ	0.00000	0.00000
TRANS LINES	0	0	0	1.00000	1.00000
TOTAL TRANS	0	0	0	0.00000	0.00000
SUBTRANS	0	0	0	1.00000	1.00000
PRIM SUBS	3,218,116	18,470	3,236,586	1.00574	0.99429
PRIM LINES	11,954,531	180,040	12,134,571	1.01506	0.98516
SECONDARY	87,800,225	<u>3,264,284</u>	91,064,509	1.03718	0.96415
TOTALS	102,972,872	3,462,794	106,435,666		

#### ESTIMATED VALUES AT DIST SUB INPUT

LOSS FACTOR AT VOLTAGE LEVEL	MW	MWH
BULK LINES	0.00	0
TRANS SUBS	0.00	0
TRANS LINES	0.00	0
SUBTRANS SUBS	0.00	0
SUBTRANS LINES	0.00	0
PRIM SUBS	422.67	3,236,586
PRIM LINES	1,600.45	12,134,571
SECONDARY	20,655.54	91,064,509
SUBTOTAL	22,678.66	106,435,666
ACTUAL ENERGY	22,679.00	106,435,000
MISMATCH	(0.34)	666
% MISMATCH	0.00%	0.00%
ONCOR 15 LOSS A	1/17	//2017

12.09 PM

#### DEVELOPMENT of LOSS FACTORS

EXHIBIT 7

ADJUSTED DEMAND

	CUSTOMER	SALES	CALC LOSS	SALES MW	CUM PEAK EXP	PANSION
LEVEL	SALES NIV	ADJUST	TOLEVEL	W SOB INPUT	FACIORS	f=1/0
	a	U	<u> </u>	u	6	1-178
BULK LINES	0.0	0.0	0.0	0.0	0.00000	0.00000
TRANS SUBS	0.0	0.0	0.0	0.0	0.00000	0.00000
TRANS LINES	0.0	0.0	0.0	0.0	1.00000	1.00000
TOTAL TRANS	0.0	0.0	0.0	0.0	0.00000	0.00000
SUBTRANS	0.0	0.0	0.0	0.0	1.00000	1.00000
PRIM SUBS	420.0	0.0	2.7	422.7	1.00637	0.99367
PRIM LINES	1,568.8	0.0	31.7	1,600.5	1.02019	0.98021
SECONDARY	19,883.5	0.0	772.4	20,655.9	1.03885	0.96261
			806.7			
TOTALS	21,872.3	0.0	806.7	22,679.0	1.03688	0.96443

#### DEVELOPMENT of LOSS FACTORS ADJUSTED ENERGY

LOSS FACTOR	CUSTOMER	SALES	CALC LOSS	SALES MWH	CUM ANNUAL I	EXPANSION
LEVEL	SALES MWH	ADJUST	TO LEVEL	@ SUB INPUT	FACTORS	
	a	b	с	d	e	f=1/e
BULK LINES	0	0	0	0	0.00000	0.00000
TRANS SUBS	0	0	0	0	0.00000	0.00000
TRANS LINES	0	0	0	0	1.00000	1.00000
TOTAL TRANS	0	0	0	0	0.00000	0.00000
SUBTRANS	0	0	0	0	1.00000	1.00000
PRIM SUBS	3,218,116	0	18,466	3,236,582	1.00574	0.99429
PRIM LINES	11,954,531	0	180,005	12,134,536	1.01506	0.98517
SECONDARY	87,800,225	<u>0</u>	3,263,656	<u>91,063,881</u>	1.03717	0.96416
			3,462,128			
TOTALS	102,972,872	0	3,462,128	106,435,000	1.03362	0.96747

### ESTIMATED VALUES AT DIST SUB INPUT

LOSS FACTOR AT		
VOLTAGE LEVEL	MW	MWH
BULK LINES	0.00	0
TRANS SUBS	0.00	0
TRANS LINES	0.00	0
SUBTRANS SUBS	0.00	0
SUBTRANS LINES	0.00	0
PRIM SUBS	422.67	3,236,582
PRIM LINES	1,600.46	12,134,536
SECONDARY	20,655.86	91,063,881
	22,679.00	106,435,000
ACTUAL ENERGY	22,679.00	106,435,000
MISMATCH	(0.00)	(0)
% MISMATCH	0.00%	0.00%

#### Adjusted Losses and Loss Factors by Facility

•

#### EXHIBIT 8

Unadjusted Losses by Segment											
Service Drop Losses Secondary Losses Line Transformer Losses Primary Line Losses Distribution Substation Losses Subtransmission Losses <u>Transmission System Losses</u> Total	MW 75.78 37.76 249.89 299.56 143.43 0.00 <u>0.00</u> 806.40	Unadjusted 75.78 37.76 249,89 299,56 143.43 0.00 0.00 806.40	MWH 276,161 87,940 1,549,066 942,238 607,390 0 <u>0</u> 3,462,794	Unadjusted 276,161 87,940 1,549,066 942,238 607,390 0 0 3,462,794							
Mismatch Allocatio	n by Segme	nt			M						
Service Drop Losses Secondary Losses Line Transformer Losses Primary Line Losses Distribution Substation Losses Subtransmission Losses <u>Transmission System Losses</u> Total	-0.03 -0.02 -0.11 -0.13 -0.06 0.00 0.00 -0.34		53 17 298 181 117 0 0 666		1016 2010511119 53 17 298 181 117 0 0 666						
adjusted Losses	hv Seameni	÷			666						
Service Drop Losses Secondary Losses Line Transformer Losses Primary Line Losses Distribution Substation Losses Subtransmission Losses <u>Transmission System Losses</u> Total	MW 75.81 37.77 249.99 299.68 143.49 0.00 0.00 806.75	% of Total 9.4% 4.7% 31 0% 37.1% 17.8% 0 0% 0.0% 100.0%	MWH 276,108 87,923 1,548,768 942,056 607,273 0 0 3,462,128	% of Total 8.0% 2.5% 44 7% 27.2% 17.5% 0 0% 0.0% 100.0%							
Loss Factors by Segment Retail Sales from Service Drops Adjusted Service Drop Losses Input to Service Drops Service Drop Loss Factor Output from Secondary Adjusted Secondary Losses	MW 19,883.47 <u>75.81</u> 19,959.28 1.00381 19,959.28 <u>37.77</u>		MWH 87,800,225 <u>276,108</u> 88,076,333 1.00314 88,076,333 <u>87,923</u>								
Input to Secondary Secondary Conductor Loss Factor	19,997.05 1 <b>.00189</b>		88,164,255 1.00100								
Output from Line Transformers Adjusted Line Transformers Input to Line Transformers Line Transformer Loss Factor Secondary Composite Retail Sales from Primary Req. Whis Sales from Primary Input to Line Transformers Output from Primary Lines Adjusted Primary Lines Adjusted Primary Lines Primary Line Loss Factor	19,997.05 <u>249,99</u> 20,247.05 <b>1.01250</b> <b>1.01829</b> <b>1.454.78</b> <u>114.00</u> <u>20,247.05</u> <u>21,815.83</u> <u>299.68</u> <u>22,115.51</u> <b>1.01374</b>		88,164,255 <u>1,548,768</u> 89,713,024 1.01757 1.02179 11,494,341 460,190 <u>89,713,024</u> 101,667,555 <u>942,055</u> 102,609,611 1.00927								
Output PI from Distribution Substations Req. Whis Sales from Substations Retail Sales from Substations TotalOutput from Distribution Substations <u>Adjusted Distribution Substation Losses</u> Input to Distribution Substations Distribution Substation Loss Factor	22,115.51 73.00 347.00 22,535 51 <u>143 49</u> 22,679.00 <b>1.00637</b>		102,609,611 305,471 2,912,645 105,827,727 <u>607,273</u> 106,435,000 <b>1,00574</b>								
Retail Sales at from Sub Fransmission Req. Whis Sales from SubTransmission Input to Distribution Substations Oulput from SubTransmission Adjusted SubTransmission SubTransmission Loss Factor Input to Distribution Substations Retail Sales at from Transmission Req. Whis Sales from Transmission Input Subtransmission Output from Transmission Adjusted Transmission Adjusted Transmission Input to Transmission Adjusted Transmission Adjusted Transmission	0.00 0.00 0.00 0.00 1.00000 22,678 66 0.00 0.00 22,679.00 0.00 22,679.00 1.00000		0 0 0 0 0 0 1,00000 106,435,666 0 106,435,000 0 106,435,000 106,435,000 106,435,000								

1/17/2017

### WP/II-H-1.3/2 <sup>\*</sup> PAGE 28 OF 32

	DEMAND MW		SUMMARY OF LOSSES AND LOSS FACTORS BY DELIVERY VOLTAGE						
	SERVICE LEVEL	SALES MW	LOSSES	SECONDARY	PRIMARY	SUBSTATION			
1 2 3 4 5	SERVICES SALES LOSSES INPUT EXPANSION FACTOR	19,883.47 1.00381	75.8	19,883.5 75.8 19,859.3					
6 7 8 9 10	SECONDARY SALES LOSSES INPUT EXPANSION FACTOR	1,00189	37.8	37.8 19,997.1					
11 12 13 14 15	LINE TRANSFORMER SALES LOSSES INPUT EXPANSION FACTOR	1.01250	250.0	250,0 20,247.0					
16 17 18 19 20 21	PRIMARY SECONDARY SALES LOSSES INPUT EXPANSION FACTOR	1568.78	299.7	20,247.0 278.1	1,568.8 21.6				
22 23 24 25 26 27	SUBSTATION PRIMARY SALES LOSSES INPUT EXPANSION FACTOR	420.0 <b>1.00637</b>	143.5	20,525.2 130.7 20,655.9	1,590.3 10.1 1,600.5	420.0 2.7 422.7			
28 29 30 31 32 33	SUB-TRANSMISSION DISTRIBUTION SUBS SALES LOSSES INPUT EXPANSION FACTOR	0.00	0.0	17,309.6 0.0 17,309.6	832.2 0.0 832 2	0.0 0.0 0.0			
34 35 36 37 38 39 40	TRANSMISSION SUBTRANSMISSION DISTRIBUTION SUBS SALES LOSSES INPUT EXPANSION FACTOR	0.00	0.0	17,309.6 3,346 3 0.0 20,655.9	832 2 768.2 0.0 1,600.5	422.7 0.0 422.7			
41	TOTALS LOSSES	CALCULATED	806.7	772.4	31.7	2.7			
42	% OF TOTAL	SCALED	806.7 100%	772.4 95.74%	31.7 3 93%	2.7 0.33%			
43	SALES	21,872.3		19,883.5	1,568 8	420 0			
44	% OF TOTAL	100.00%		90.91%	7.17%	1.92%			
45	INPUT	22,679.0		20,655.9	1,600.5	422.7			
46	CUMMULATIVE EXPANSION (from meter to sys	LOSS FACTORS tom input}	1.03688 SYSTEM	1.03885	1.02019	NA			

### WP/II-H-1.3/2 PAGE 29 OF 32

ENERGY MWH				SUMMARY OF LOSSES AND LOSS FACTORS BY DELIVERY VOLTAGE							
	SERVICE		SA	LES LOSSES (	SECONDARY	PRIMARY	SUBSTATION				
1 2 3 4 5	SERVICES SALES LOSSES INPUT EXPANSION	FACTOR	87,800, 1.00314	225 276,108	87,800,225 276,108 88,076,333						
6 7 8 9 10	SECONDAR' SALES LOSSES INPUT EXPANSION	Y FACTOR	1.00100	87,923	87,923 88,164,255						
11 12 13 14 15	LINE TRANS SALES LOSSES INPUT EXPANSION	FORMER	1.01757	1,548,768	1,548,768 89,713,024						
16 17 18 19 20 21	PRIMARY SECONDARY SALES LOSSES INPUT EXPANSION	FACTOR	11,954,531. <b>1.00927</b>	000 942,056	89,713,024 831,285	11,954,531 110,771					
22 23 24 25 26 27	SUBSTATION PRIMARY SALES LOSSES INPUT EXPANSION	N FACTOR	3,218, 1.00674	116 607,273	90,544,309 519,572 91,063,881	12,065,302 69,234 12,134,537	3,218,116 18,467 3,236,583				
28 29 30 31 32 33	SUB-TRANSI DISTRIBUTIO SALES LOSSES INPUT EXPANSION	MISSION ON SUBS	1.00000	0 0	81,320,045 0 81,320,045	4,805,277 0 4,805,277	0.000 0.000 0.000				
34 35 36 37 38 39 40	TRANSMISSI SUBTRANSM DISTRIBUTIC SALES LOSSES INPUT EXPANSION	ON HISSION DN SUBS	1.00000	0 0	81.320,045 9.743,835 0 91,063,881	4,805,277 7,329,260 0 12,134,537	3,236,583 0 3,236,583				
41	TOTALS	LOSSES	Calculated Scaled	3,462,128 3 462,128	3,263,656 3,263,656	180,006 180,005	18,467 18,467				
42		% OF TOTAL		100%	94 27%	5.20%	0 53%				
43 44		SALES % OF TOTAL	102,972, 100.(	872 )0%	87,800,225 85 27%	11,954,531 11.61%	3.218,116 3 13%				
45		INPUT	106,435,	000	91,063,881	12,134,536	3,236,583				
46	CUMMULATI	VE EXPANSION	LOSS FACTORS	1.03362 SYSTEM	1.03717	1.01506	i NA				

•

## **Appendix B**

### **Discussion of Hoebel Coefficient**
# Oncor Electric Delivery System 2015 Analysis of System Losses

## **COMMENTS ON THE HOEBEL COEFFICIENT**

The Hoebel constant represents an established industry standard relationship between peak losses and average losses and is used in a loss study to estimate energy losses from peak demand losses. H. F. Hoebel described this relationship in his article, "Cost of Electric Distribution Losses," <u>Electric Light and Power</u>, March 15, 1959.

Within any loss evaluation study, peak demand losses can readily be calculated given equipment resistance and approximate loading. Energy losses, however, are much more difficult to determine given their time-varying nature. This difficulty can be reduced by the use of an equation which relates peak load losses (demand) to average losses (energy). Once the relationship between peak and average losses is known, average losses can be estimated from the known peak load losses.

Within the electric utility industry, the relationship between peak and average losses is known as the loss factor. For definitional purposes, loss factor is the ratio of the average power loss to the peak load power loss, during a specified period of time. This relationship is expressed mathematically as follows:

(1) $F_{1S} \cong A_{1S} \div P_{1S}$	where:	FLS	=	Loss Factor
		$A_{LS}$	==	Average Losses
		PLS	=	Peak Losses

The loss factor provides an estimate of the degree to which the load loss is maintained throughout the period in which the loss is being considered. In other words, loss factor is the ratio of the actual kWh losses incurred to the kWh losses which would have occurred if full load had continued throughout the period under study.

Examining the loss factor expression in light of a similar expression for load factor indicates a high degree of similarity. The mathematical expression for load factor is as follows:

(2) 
$$F_{LD} \cong A_{LD} \div P_{LD}$$
 where:  $F_{LD} =$  Load Factor  
 $A_{LD} =$  Average Load  
 $P_{LD} =$  Peak Load

This load factor result provides an estimate of the degree to which the load loss is maintained throughout the period in which the load is being considered. Because of the similarities in definition, the loss factor is sometimes called the "load factor of losses." While the definitions are similar, a strict equating of the two factors cannot be made. There does exist, however, a relationship between these two factors which is dependent upon the shape of the load duration curve. Since resistive losses vary as the square of the load, it can be shown mathematically that the loss factor can vary between the extreme limits of load factor and load factor squared. The

# Oncor Electric Delivery System 2015 Analysis of System Losses

relationship between load factor and loss factor has become an industry standard and is as follows:

(3) $F_{1S} \cong H^* F_{1D}^2 + (1-H)^* F_{1D}$	where:	FLS	=	Loss Factor
		$F_{LD}$	=	Load Factor
		Н	=	Hoebel Coefficient

As noted in the attached article, the suggested value for H (the Hoebel coefficient) is 0.7. The exact value of H will vary as a function of the shape of the utility's load duration curve. In recent years, values of H have been computed directly for a number of utilities based on EEI load data. It appears on this basis, the suggested value of 0.7 should be considered a lower bound and that values approaching unity may be considered a reasonable upper bound. Based on experience, values of H have ranged from approximately 0.85 to 0.95. The standard default value of 0.9 is generally used.

Inserting the Hoebel coefficient estimate gives the following loss factor relationship using Equation (3):

(4)  $F_{LS} \approx 0.90 * F_{LD}^2 + 0.10 * F_{LD}$ 

Once the Hoebel constant has been estimated and the load factor and peak losses associated with a piece of equipment have been estimated, one can calculate the average, or energy losses as follows:

(5) 
$$A_{LS} \cong P_{LS} * [H^*F_{LD}^2 + (1-H)^*F_{LD}]$$
 where:  $A_{LS} = Average Losses$   
 $P_{LS} = Peak Losses$   
 $H = Hoebel Coefficient$   
 $F_{LD} = Load Factor$ 

Loss studies use this equation to calculate energy losses at each major voltage level in the analysis.

**MAC** 2

WP/II-H-1.3.1/1 Page 1 of 1

PUC DOCKET NO. ONCOR ELECTRIC DELIVERY COMPANY LLC ADJUSTMENTS TO TEST YEAR LOAD DATA FOR THE TEST YEAR ENDING DECEMBER 31, 2021 SPONSOR: D. E. NELSON

There are no supporting workpapers for Schedule II-H-1.3.1.

WP/II-H-1.3.2/1 Page 1 of 1

# PUC DOCKET NO. ONCOR ELECTRIC DELIVERY COMPANY LLC DC TIE LOAD DATA FOR THE TEST YEAR ENDING DECEMBER 31, 2021

SPONSOR: D. E. NELSON

There are no supporting workpapers for Schedule II-H-1.3.2.

4768

WP/II-H-1.4/1 Page 1 of 1

# PUC DOCKET NO. ONCOR ELECTRIC DELIVERY COMPANY LLC ADJUSTED TEST YEAR LOAD DATA FOR THE TEST YEAR ENDING DECEMBER 31, 2021

SPONSOR: D. E. NELSON

There are no supporting workpapers for Schedule II-H-1.4.

WP/II-H-1.5 Page 1 of 1

# PUC DOCKET NO. ONCOR ELECTRIC DELIVERY COMPANY LLC ADJUSTMENTS TO OPERATING STATISTICS FOR THE TEST YEAR ENDING DECEMBER 31, 2021

SPONSOR: D. E. NELSON

There are no supporting workpapers for Schedule II-H-1.5.

See Schedule II-H-1.2 for supporting documentation.

WP/II-H-2.1 Page 1 of 1

# PUC DOCKET NO. ONCOR ELECTRIC DELIVERY COMPANY LLC MODEL INFORMATION FOR THE TEST YEAR ENDING DECEMBER 31, 2021

SPONSOR: D. E. NELSON

.

•

There are no supporting workpapers for Schedule II-H-2.1.

.

WP/II-H-2.2 Page 1 of 1

# PUC DOCKET NO. ONCOR ELECTRIC DELIVERY COMPANY LLC DATA FOR MODELS IN II-H-2.1 FOR THE TEST YEAR ENDING DECEMBER 31, 2021

SPONSOR: D. E. NELSON

There are no supporting workpapers for Schedule II-H-2.2.

WP/II-H-2.3 Page 1 of 1

.

# PUC DOCKET NO. ONCOR ELECTRIC DELIVERY COMPANY LLC MODEL VARIABLES FOR THE TEST YEAR ENDING DECEMBER 31, 2021

SPONSOR: D. E. NELSON

There are no supporting workpapers for Schedule II-H-2.3.

WP/II-H-3.1 Page 1 of 1

# PUC DOCKET NO. ONCOR ELECTRIC DELIVERY COMPANY LLC CUSTOMER INFORMATION FOR THE TEST YEAR ENDING DECEMBER 31, 2021

SPONSOR: D. E. NELSON

.

There are no supporting workpapers for Schedule II-H-3.1.

WP/II-H-3.2 Page 1 of 1

# PUC DOCKET NO. ONCOR ELECTRIC DELIVERY COMPANY LLC CUSTOMER ADJUSTMENTS FOR THE TEST YEAR ENDING DECEMBER 31, 2021

SPONSOR: D. E. NELSON

There are no supporting workpapers for Schedule II-H-3.2.

WP/II-H-3.3 Page 1 of 1

# PUC DOCKET NO. ONCOR ELECTRIC DELIVERY COMPANY LLC CUSTOMER ADJUSTMENT DATA FOR THE TEST YEAR ENDING DECEMBER 31, 2021

SPONSOR: D. E. NELSON

There are no supporting workpapers for Schedule II-H-3.3.

#### PUC DOCKET NO. ONCOR ELECTRIC DELIVERY COMPANY LLC ANALYTIC MDMS METER MAX INTERVAL DATA FOR THE TEST YEAR ENDING DECEMBER 31, 2021

## SPONSOR: D. E. NELSON

#### Residential

Line	kW	Bill	S	Monthly Ho	urly Demand	Usa	ge
No.	Level	Number	Cumulative	kW	Cumulative	kWh	Cumulative
	(a)	(b)	(c)	(d)	(e)	(f)	(g)
1	0	562,082	562,082	-	-	27,285,372	27,285,372
2	1	742,310	1,304,392	742,310	742,310	139,350,362	166,635,734
3	2	1,162,216	2,466,608	2,324,432	3,066,742	410,038,679	576,674,413
4	3	2,484,863	4,951,471	7,454,589	10,521,331	1,163,747,235	1,740,421,648
5	4	4,422,750	9,374,221	17,691,000	28,212,331	2,632,569,786	4,372,991,434
6	5	5,424,624	14,798,845	27,123,120	55,335,451	4,168,147,187	8,541,138,621
7	6	5,475,947	20,274,792	32,855,682	88,191,133	5,329,714,349	13,870,852,970
8	7	4,824,298	25,099,090	33,770,086	121,961,219	5,742,549,246	19,613,402,216
9	8	3,757,280	28,856,370	30,058,240	152,019,459	5,285,297,116	24,898,699,332
10	9	2,735,174	31,591,544	24,616,566	176,636,025	4,379,268,280	29,277,967,612
11	10	1,853,640	33,445,184	18,536,400	195,172,425	3,337,516,813	32,615,484,425
12	11	1,283,266	34,728,450	14,115,926	209,288,351	2,514,656,179	35,130,140,604
13	12	864,079	35,592,529	10,368,948	219,657,299	1,841,389,573	36,971,530,177
14	13	604,177	36,196,706	7,854,301	227,511,600	1,373,502,961	38,345,033,138
15	14	435,207	36,631,913	6,092,898	233,604,498	1,045,357,710	39,390,390,848
16	15	329,489	36,961,402	4,942,335	238,546,833	822,331,511	40,212,722,359
17	16	251,154	37,212,556	4,018,464	242,565,297	649,601,818	40,862,324,177
18	17	183,946	37,396,502	3,127,082	245,692,379	502,415,446	41,364,739,623
19	18	137,905	37,534,407	2,482,290	248,174,669	394,537,899	41,759,277,522
20	19	104,701	37,639,108	1,989,319	250,163,988	311,689,581	42,070,967,103
21	20	80,063	37,719,171	1,601,260	251,765,248	248,674,712	42,319,641,815
22	21	61,873	37,781,044	1,299,333	253,064,581	200,403,942	42,520,045,757
23	22	46,408	37,827,452	1,020,976	254,085,557	158,779,135	42,678,824,892
24	23	35,137	37,862,589	808,151	254,893,708	126,089,428	42,804,914,320
25	24	27,051	37,889,640	649,224	255,542,932	100,964,657	42,905,878,977
26	25	21,003	37,910,643	525,075	256,068,007	82,762,384	42,988,641,361
27	26	16,047	37,926,690	417,222	256,485,229	67,158,085	43,055,799,446
28	27	12,136	37,938,826	327,672	256,812,901	53,415,324	43,109,214,770
29	28	9,401	37,948,227	263,228	257,076,129	43,564,191	43,152,778,961
30	29	7,269	37,955,496	210,801	257,286,930	35,470,531	43,188,249,492
31	30	5,755	37,961,251	172,650	257,459,580	29,519,444	43,217,768,936
32		,	, ,				
33	Booked	38,792,738		Calculated	266,729,776	Booked	44,773,885,786
34							1.036006413
35							
36	Adjustmen	t for Customer Grov	vth				
37	,	306,658			2,139,088		359,072,373
38							0.008019683
39							
40	Weather A	diustment					
41		-			5,506,766		924,378,612
42					• •		0.020645486
43							
44	Total Adius	ted Billing Units					
45		39,099,396			274,375,630		46,057,336,770
		,,. <del>.</del>					

#### PUC DOCKET NO. ONCOR ELECTRIC DELIVERY COMPANY LLC ANALYTIC MDMS METER MAX INTERVAL DATA FOR THE TEST YEAR ENDING DECEMBER 31, 2021

#### SPONSOR: D. E. NELSON

#### Secondary Small

Line	kW	Bills		Monthly 15-	Min Demand	Usage			
No.	Level	Number	Cumulative	kW	Cumulative	kWh	Cumulative		
	(a)	(b)	(C)	(d)	(e)	(f)	(g)		
1	0	1,038,999	1,038,999	0	0	72,339,696	72,339,696		
2	1	748,178	1,787,177	748,178	748,178	238,169,295	310,508,991		
3	2	330,215	2,117,392	660,430	1,408,608	160,948,293	471,457,284		
4	3	222,054	2,339,446	666,162	2,074,770	145,887,055	617,344,339		
5	4	181,038	2,520,484	724,152	2,798,922	150,066,158	767,410,497		
6	5	156,821	2,677,305	784,105	3,583,027	156,283,111	923,693,608		
7	6	135,992	2,813,297	815,952	4,398,979	159,503,732	1,083,197,340		
8	7	107,784	2,921,081	754,488	5,153,467	146,797,990	1,229,995,330		
9	8	79,821	3,000,902	638,568	5,792,035	122,393,261	1,352,388,591		
10	9	56,243	3,057,145	506,187	6,298,222	90,971,580	1,443,360,171		
11	10	35,263	3,092,408	352,630	6,650,852	54,349,049	1,497,709,220		
12									
13	Booked	3,607,089		Calculated	8,152,793	Booked	1,835,932,149		
14							1.225826832		
15									
16	Adjustment f	for Customer Grov	vth						
17		46,071			105,442		23,744,467		
18							0.012933194		
19									
20	Weather Adj	ustment							
21		-			87,998		19,816,236		
22							0.010793556		
23									
24	Total Adjuste	ed Billing Units							
25		3,653,160			8,346,232		1,879,492,852		

#### PUC DOCKET NO. ONCOR ELECTRIC DELIVERY COMPANY LLC ANALYTIC MDMS METER MAX INTERVAL DATA FOR THE TEST YEAR ENDING DECEMBER 31, 2021

## SPONSOR: D. E. NELSON

#### Primary Small

Line	kW	Bil	ls	Monthly 15-	Min Demand	Usa	ge
No.	Level	Number	Cumulative	kW	Cumulative	kWh	Cumulative
	(a)	(b)	(c)	(d)	(e)	(f)	(g)
1	0	8,189	8,189	0	0	285,716	285,716
2	1	2,211	10,400	2,211	2,211	808,985	1,094,701
3	2	1,555	11,955	3,110	5,321	987,798	2,082,499
4	3	1,378	13,333	4,134	9,455	1,291,562	3,374,061
5	4	1,584	14,917	6,336	15,791	2,027,554	5,401,615
6	5	1,608	16,525	8,040	23,831	2,390,656	7,792,271
7	6	1,875	18,400	11,250	35,081	3,131,331	10,923,602
8	7	1,756	20,156	12,292	47,373	3,338,312	14,261,914
9	8	1,260	21,416	10,080	57,453	2,831,389	17,093,303
10	9	876	22,292	7,884	65,337	2,066,804	19,160,107
11	10	257	22,549	2,570	67,907	637,564	19,797,671
12							
13	Booked	36,713		Calculated	94,194	Booked	27,461,549
14							1.38711008
15							
16	Adjustment	for Customer Grov	wth				
17		499			1,248		363,719
18							0.013244668
19							
20	Weather Ad	justment					
21		-			0		0
22							0
23							
24	Total Adjust	ed Billing Units					
25		37,212			95,442		27,825,268

## PUC DOCKET NO. ONCOR ELECTRIC DELIVERY COMPANY LLC OTHER NON-ELECTRIC REVENUE FOR THE TEST YEAR ENDING DEMBER 31, 2021

#### SPONSOR: D. E. NELSON

Line	Acct		Distribution				
No.	No.	Detail of Miscellaneous Other Revenue		Rev Credit			
	(a)	(b)		(c)			
1	450	Forfeited Discounts	\$	1,070,706			
2							
3	451	Miscellaneous Service Revenue	\$	456,565			
4							
5	454	Rents from Pole Contacts	\$	8,281,656			
6		Rents from Fiber Optics	\$	1,059,911			
7		Rents from Antenna Leases	\$	16,700			
8		Rents from Property					
9							
10	456	Other Revenue - Other					
11		CIAC Gross Up	\$	5,189,025			
12		Pro Rata/Duel Feed	\$	329,942			
13		Tampering - TDSP energy portion of tampering	\$	177,841			
14							
15	456	Other Revenue - Engineering & Operations					
16		Facilities studies, interconnection studies, DG studies	\$	390,000			
17		Total - Non-Electric Revenue	\$	16,972,346			

Note: See WP/II-E-5

-

## PUC DOCKET NO. ONCOR ELECTRIC DELIVERY COMPANY LLC REVENUE IMPACT DATA FOR THE TEST YEAR ENDING DECEMBER 31, 2021

## SPONSOR: D. E. NELSON

<u>NO.</u>		
1	Outdoor Lighting Revenue	\$10,691,536  *
2		
3	Street Lighting Revenue	
4		
5	Non-Metered Facilities	
6	Adjusted Lighting @ Present Rates	
7		
8	POD Charge	\$333,012
9		
10	Schedule A	\$33,517,447
11	Schedule B	\$3,416,110
12	Schedule C	\$10,078
13	Schedule D	\$1,433,568
14	LED - Schedule A	\$10,342,178
15	Rectangular	\$110,017
16	Post Top	\$13,515
17	Incandescent	\$2,846
18	Historical	<u>\$45,686</u>
19	Facilities Charge	\$48,891,445
20		
21	Total	\$49,224,457 *

\*Schedule II-H-4.1 Page 9

LINE

This revenue reflects the change in lights from Non-LED lights to LED lights.

WP/II-H-4.2 Page 1 of 1

# PUC DOCKET NO. ONCOR ELECTRIC DELIVERY COMPANY LLC REVENUE CALCULATION METHODOLOGIES FOR THE TEST YEAR ENDING DECEMBER 31, 2021

SPONSOR: D. E. NELSON

There are no supporting workpapers for Schedule II-H-4.2.

WP/II-H-5.1 Page 1 of 1

# PUC DOCKET NO. ONCOR ELECTRIC DELIVERY COMPANY LLC WEATHER STATION DATA FOR THE TEST YEAR ENDING DECEMBER 31, 2021

SPONSOR: D. E. NELSON

There are no supporting workpapers for Schedule II-H-5.1.

.

## PUC DOCKET NO. ONCOR ELECTRIC DELIVERY COMPANY LLC WEATHER WEIGHTS FOR THE TEST YEAR ENDING DECEMBER 31, 2021

### SPONSOR: D. E. NELSON

## **RESIDENTIAL MONTHLY WEIGHTS**

Line	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(I)	(m)	(n)
<u>No.</u>	Weather Station	Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1	Dallas-Fort Worth	68.7%	68.9%	69.2%	69.2%	69.6%	70 3%	71.0%	70.8%	70.6%	70.7%	69.1%	68.4%	69.9%
2	Midland-Odessa	5.7%	5.6%	5.5%	5 6%	5 9%	5.7%	5.6%	5.5%	5.4%	5.2%	5.8%	5.8%	5.6%
3	Lufkin	3.0%	3.0%	2.7%	2 8%	2.7%	2.7%	2.5%	2 5%	2 6%	2 6%	2.8%	3.0%	2.7%
4	Abilene	1.5%	1.4%	1.4%	1.3%	1.3%	1.3%	1.3%	1.2%	1.2%	1.1%	1.4%	1.5%	1.3%
5	Sherman-Denison	2.7%	2.8%	2.8%	2.6%	2.3%	2.2%	2.3%	2 4%	2.3%	2.4%	2.5%	2.7%	2.5%
6	Killeen-Temple	5.3%	5.1%	5.1%	4.9%	4.7%	4.5%	4.3%	4.3%	4.4%	4.5%	4.9%	5.1%	4.7%
7	Waco	3.9%	4.0%	4.0%	3.8%	3.6%	3.5%	3 5%	3.6%	3.7%	3.8%	3.9%	3.9%	3.7%
8	Wichita Falls.	2.0%	2.0%	2 0%	1.9%	1 9%	1.8%	1.9%	1.9%	1.9%	1.8%	1.9%	2.0%	1.9%
9	Longview	3.9%	3.9%	3.8%	3.8%	3.6%	3.6%	3.4%	3.5%	3.5%	3.5%	3.6%	3.9%	3.6%
10	Austin	3.4%	3.3%	3.4%	4.2%	4.4%	4.5%	4.3%	4.3%	4.4%	4.4%	4.2%	3.7%	4.1%
11	-	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100 0%	100.0%
12														

12			
13		SEASONAL	WEIGHTS
14		Nov to Mar	May to Sep
15	Weather Station	HDD	CDD
16	Dallas-Fort Worth	68.9%	70.5%
17	Midland-Odessa	5.7%	5.6%
18	Lufkin	2.9%	2.6%
19	Abilene	1.4%	1.2%
20	Sherman-Denison	2.7%	2.3%
21	Killeen-Temple	5.1%	4.5%
22	Waco	3.9%	3.6%
23	Wichita Falls.	2.0%	1.9%
24	Longview	3.8%	3.5%
25	Austin	3.6%	4.4%
26		100.0%	100.0%

## SPONSOR: D. E. NELSON

## **RESIDENTIAL MONTHLY WEIGHTS**

Line	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(I)	(m)	(n)
<u>No.</u>	Weather Station	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1	Dallas-Fort Worth	68.7%	68 9%	69.2%	69.2%	69.6%	70.3%	71.0%	70.8%	70.6%	70.7%	69.1%	68.4%	69.9%
2	Midland-Odessa	5.7%	5 6%	5.5%	5.6%	5.9%	5.7%	5.6%	5 5%	5.4%	5.2%	5.8%	5.8%	5.6%
3	Lufkin	3.0%	3.0%	2.7%	2.8%	2 7%	2.7%	2.5%	2 5%	2.6%	2.6%	2.8%	3.0%	2.7%
4	Abilene	1.5%	1.4%	1.4%	1 3%	1 3%	1.3%	1 3%	1 2%	1.2%	1.1%	1.4%	1.5%	1.3%
5	Sherman-Denison	2.7%	2.8%	2 8%	2 6%	2.3%	2.2%	2.3%	2.4%	2 3%	2.4%	2.5%	2 7%	2.5%
6	Killeen-Temple	5.3%	5 1%	5.1%	4.9%	4.7%	4.5%	4.3%	4.3%	4 4%	4 5%	4.9%	5.1%	4.7%
7	Waco	3.9%	4.0%	4 0%	3.8%	3.6%	3.5%	3.5%	3.6%	3.7%	3.8%	3 9%	3.9%	3.7%
8	Wichita Falls.	2 0%	2.0%	2.0%	1.9%	1.9%	1 8%	1.9%	1.9%	1 9%	1.8%	1.9%	2.0%	1 9%
9	Longview	3.9%	3.9%	3 8%	3.8%	3.6%	3.6%	3.4%	3 5%	3.5%	3.5%	3.6%	3.9%	3.6%
10	Austin	3.4%	3.3%	3 4%	4.2%	4.4%	4.5%	4.3%	4.3%	4.4%	4 4%	4.2%	3 7%	4 1%
	_	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

#### SPONSOR: D. E. NELSON

#### RESIDENTIAL MONTHLY WEIGHTS BY YEAR

Line	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(1)	(m)	(n)	(o)
<u>No.</u>	Weather Station	Year	Jan	Feb	Mar	Арг	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
	1 Dallas-Fort Worth	2018	69.4%	69.0%	70.0%	69.5%	69 7%	70 7%	71.8%	71.3%	70 5%	70.6%	69.1%	68 3%	70.2%
	2 Dallas-Fort Worth	2019	68.2%	69 0%	69 5%	68 8%	69.6%	70 1%	70.6%	70.8%	70.9%	71 2%	69.0%	C0 C0/	60.0%
	3 Dallas-Fort Worth	2020	68.4%	68 5%	68.3%	69 3%	69.6%	70.0%	70 494	70.49/	70 5%	71 3/6	60.3%	00 5%	69 970
	4 Dallas-Fort Worth	Total	69.7%	68.0%	60.3%	60.3%		70 0%	70 476	70.4%	70 5%	70,1%	69 2%	68 6%	69 6%
	5	TUtal	08.7%	68 9%	69 2%	69.2%	69.6%	70 3%	71.0%	70 8%	70 6%	70 7%	69 1%	68 4%	69 9%
	6 Lufkin	2018	3 1%	3.0%	2.6%	2 9%	2 8%	2 64	7.5%	7.5%	2.04	2 70/	2.007	l	
	7 Lufkin	2019	2.8%	3 0%	2.7%	2.5%	2 8%	2 0%	2.3%	2.376	2 6%	2 / 76	29%	3 1%	2.7%
	8 Lufkin	2020	2.9%	2 9%	2 8%	2.7%	2 6%	2.6%	2.5%	2 5%	2 5%	2 4%	2 6%	2.9%	2/76
	9 Lufkin	Total	3 0%	3 0%	2 7%	2.8%	2.7%	2 7%	2.5%	2.5%	2.5%	2.6%	2.0%	3.0%	27/6
1	.0									21070	2.070	20%	2.070	5.0%	2778
1	1 Austin	2018	3 3%	3 2%	3 4%	4.1%	4 2%	4 3%	4.0%	4.1%	4 4%	4 2%	4 0%	3 5%	3 9%
1	.2 Austin	2019	3 4%	3.3%	3 3%	3.9%	4 4%	4 6%	4.4%	4.4%	4.3%	4 4%	4.1%	3.7%	4 0%
1	3 Austin	2020	3 6%	3 4%	3 6%	4.4%	4 6%	4.7%	4.5%	4 4%	4 5%	4 6%	4 5%	4 1%	4.3%
1	4 Austin	Total	3 4%	3 3%	3 4%	4 2%	4 4%	4.5%	4 3%	4 3%	4.4%	4 4%	4.2%	3 7%	4.1%
1	5														
1	6 Killeen	2018	5.3%	5.2%	5 0%	4.8%	4 6%	4.3%	4.1%	4.3%	4 4%	4.5%	4 8%	5 2%	4.7%
1	7 Killeen 9 Killeen	2019	5 3%	5 2%	5 1%	4 9%	4 7%	4.6%	4 4%	4.3%	4.3%	4 4%	5 0%	5 1%	4.7%
1	O Killer	2020	5 2%	5.0%	5.2%	4.8%	4 8%	4.6%	4 4%	4.5%	4 5%	4 6%	5 0%	5 1%	4.8%
2	O Killeen	rotai	5 3%	5.1%	5 1%	4.9%	4 7%	4 5%	4.3%	4.3%	4 4%	4 5%	4 9%	5.1%	4.7%
2		2018	4.08	4.09/	3 764	2.00/	2 70/	2.5%	2.40		- <i>ce</i>				
2	2 Longview	2018	3.8%	3 9%	3 8%	3.8%	3 /76	5.5%	3.4%	3.5%	36%	3/%	3.8%	4.0%	3.7%
2	3 Longview	2020	3.9%	3.9%	3.9%	3 7%	3 5%	3.7%	3.5%	3.4%	3 376	3476	3 5%	3.9%	3 5%
2	4 Longview	Total	3.9%	3 9%	3.8%	3.8%	3.6%	3.6%	3.4%	3.5%	3 5%	3 5%	3.6%	3 9%	3 6%
2	5					/-	•••••		0.00	5 370	5570	5.5%	5 078	5.57%	20%
2	6 Waco	2018	3.9%	4 1%	4.0%	3.7%	3.6%	3 5%	3.5%	3.7%	3.8%	3 8%	3 9%	3.9%	3.8%
2	7 Waco	2019	4 0%	4 0%	4 0%	3.9%	3 6%	3 6%	3 5%	3 5%	3 6%	3.7%	3 9%	3.9%	3 8%
2	8 Waco	2020	3 9%	3 8%	4.1%	3 7%	3.6%	3 5%	3 4%	3 6%	3 7%	3 7%	3 8%	3.7%	3 7%
2	9 Waco	Total	3 9%	4 0%	4 0%	3.8%	3 6%	3.5%	3 5%	3 6%	3.7%	3 8%	3 9%	3 9%	3 7%
3	0														
3	1 Abilene	2018	1 4%	1.4%	1 3%	1 3%	1 3%	1 3%	1 3%	1 2%	1 2%	1 1%	1 4%	1 5%	1 3%
3	2 Abilene	2019	1 5%	1.4%	1.4%	1.3%	1 2%	1 2%	1.2%	1 2%	1.2%	1 1%	1 4%	1 5%	1 3%
3	3 Abilene	2020	1 5%	1 5%	1 4%	1.3%	1 3%	1 3%	1 3%	1 3%	1 2%	1 2%	1 3%	1 4%	1.3%
3	4 Abilene	Total	1 5%	14%	1.4%	1 3%	1 3%	1 3%	1 3%	1 2%	1.2%	1.1%	1 4%	1.5%	1 3%
2	D 6 Wichita Falls	2010	2.0%	2.0%	2 10/	2.0%	1.00/	4.000							
3	7 Wichita Falls	2018	2 0%	2.0%	2.1%	20%	19%	1.9%	1.9%	19%	1.9%	18%	19%	2 0%	19%
3	8 Wichita Falls	2019	2 0%	2 0%	1 9%	1 9%	1 294	1 / 70	1 9%	19%	1.9%	1 8%	19%	2.0%	19%
3	9 Wichita Falls	Total	2.0%	2.0%	2.0%	1 9%	1.9%	1.8%	1.9%	1.9%	1.0%	1 8%	1 9%	2.0%	1 9%
4	0						2.570	20/0	2.570	1 2 /0	1 576	1.070	1 274	2.070]	1 576
4	1 Midland Odessa	2018	S 0%	5 2%	5 1%	5 5%	5 8%	5 8%	5 3%	5.1%	5 2%	5.1%	5 8%	5.9%	5 4%
4	2 Midland Odessa	2019	6 1%	5 4%	5 3%	5 8%	5 8%	5 4%	5 8%	5.6%	5 4%	5 0%	5 9%	5 8%	5 6%
4	3 Midland Odessa	2020	6 0%	6 1%	6 0%	5 5%	5 9%	5 9%	5 9%	5,7%	5 5%	5 6%	5 7%	5.7%	5 8%
4	4 Midland Odessa	Total	5 7%	5.6%	5 5%	5 6%	5 9%	5 7%	5 6%	5 5%	5 4%	5.2%	5 8%	5.8%	5 6%
4	5													•	
4	6 Denison	2018	2 6%	2.8%	2 8%	2 6%	2 4%	2 2%	2 3%	2.4%	2 4%	2 4%	2 5%	2.7%	2 5%
4	7 Denison	2019	2.7%	2 8%	2 8%	2 7%	2.3%	2 2%	2 3%	2 3%	2 3%	2 3%	2.5%	2 7%	2,5%
4	8 Denison	2020	2.8%	2 8%	2 7%	2 5%	2 3%	2 1%	2 3%	2 4%	2.3%	2 3%	2.4%	2 6%	2 4%
4	9 Denison	Total	2.7%	28%	2 8%	2 6%	2.3%	2.2%	2.3%	2 4%	2 3%	2.4%	2.5%	2.7%	2 5%
5	U 1 Svetom	2010	100.00	100.00	100 00/										
5	2 System	2018	100 0%	100.0%	100 0%	100 0%	100 0%	100 0%	100 0%	100.0%	100.0%	100.0%	100.0%	100.0%	100 0%
5	3 System	2020	100.0%	100.0%	100.0%	100.0%	100 0%	100 0%	100.0%	100.0%	100 0%	100.0%	100.0%	100.0%	100.0%
5.	4 System	Total	100.0%	100.0%	100.0%	100 0%	100.0%	100 0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
	,	10101	100 0/8	100.070	100.010	100 078	100 0 %	100 076	100 070	100 076	100.076	100.0%	100 0%	100 0%	100 0%

#### SPONSOR: D. E. NELSON

#### **RESIDENTIAL MONTHLY KWH SALES BY YEAR**

Line	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k) .	(I)	(m)	(n)	(o)
<u>No.</u>	Weather Station	Year	Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
	1 Dallas-Fort Worth	2018	3,126,308	2,661,392	2,140,665	1,708,376	1,825,743	3,080,667	3,931,111	3,932,869	3,433,388	2,455,573	1,778,714	2,273,925	32,348,733
	2 Dallas-Fort Worth	2019	2,579,293	2,644,761	2,470,395	1,769,271	1,791,772	2,466,115	3,175,971	3,642,742	3,909,480	3,153,905	1,985,615	2.184.505	31,773,824
	3 Dallas-Fort Worth	2020	2,400,249	2.322.171	2.135.389	1.823.307	2.047.588	2,713,602	3.580.872	3.851.104	3.552.201	2,335,340	2.006.989	2.000.689	30,769,500
	4 Dallas-Fort Worth	Total	8 105 851	7 639 335	6 746 449	5 200 054	5 665 102	9 260 284	10 697 054	11 436 716	10 905 070	7.044.017	6 771 319	6 450 110	04 802 057
	5	i otai	0,100,001	7,020,323	0,740,449	3,300,934	5,005,105	8,200,384	10,087,934	11,420,713	10,055,070	7,544,617	5,771,510	0,435,115	34,852,037
	6 Lufkin	2018	139.657	116.487	78.965	70.124	72.901	112,997	136,134	137.747	129 107	95.341	74.111	102,899	1,266,461
	7 Lufkin	2019	107,105	113,323	97,632	72,339	70,999	99,404	115,818	127.275	136.278	107.146	80.037	93,447	1.220.802
	8 Lufkin	2020	103,480	99,592	89,069	72,231	75,357	99,284	127,310	134,307	128,139	87,240	76,375	85,093	1,177,477
	9 Lufkin	Total	350,243	329,396	265,665	214,695	219,257	311,679	379,262	399,330	393,524	289,727	230,524	281,439	3,664,740
3	0														
1	1 Austin	2018	148,480	122,962	103,295	99,628	109,567	185,662	217,650	227,560	213,234	147,362	103,799	117,092	1,796,291
1	12 Austin	2019	129,793	126,074	117,462	101,501	112,700	163,468	197,332	224,745	239,563	194,421	117,013	117,403	1,841,476
1	L3 Austin	2020	125,002	114,237	113,713	116,984	134,226	182,204	226,749	239,253	228,670	153,089	131,819	119,249	1,885,194
1	14 Austin	Total	403,274	363,273	334,471	318,113	356,493	531,334	641,730	691,558	681,468	494,872	352,632	353,745	5,522,962
ر د	15 6 willion	2010	220.202								246 200		104 677	172.001	2 1 46 410
1	LO Killeen	2018	238,363	107 000	151,595	117,784	120,178	163,407	105 921	236,917	215,599	105 2/2	142 927	1/2,085	2,146,410
1	18 Killeen	2019	181 414	169.854	163,801	120,940	140 528	179 823	225 557	220,950	257,791	195,545	142,927	148.646	2,147,803
1	9 Killeen	Total	621,269	569,131	498.365	372.086	380,793	531,194	645,942	701.413	682.022	503.668	411.948	483,344	6,401,175
2	20										,	,	,		
2	21 Longview	2018	179.545	153,446	114.432	92.632	96.731	152.906	187.547	192.014	176,752	127,380	97,079	132,201	1,702,665
2	22 Longview	2019	144,264	150,185	136,259	98,323	94,744	129,737	155,710	177,067	192,858	152,366	104,347	123,823	1,659,683
2	23 Longview	2020	135,892	131,893	121,151	97,148	103,803	135,064	176,158	188,508	173,720	115,065	102,437	112,211	1,593,051
2	24 Longview	Total	459,700	435,524	371,842	288,103	295,279	417,707	519,415	557,589	543,330	394,811	303,863	368,235	4,955,399
2	25														
2	26 Waco	2018	176,259	158,653	123,778	91,467	94,787	152,224	191,544	202,450	185,832	132,468	99,219	129,955	1,738,636
2	27 Waco	2019	150,820	152,726	141,625	99,601	93,569	127,062	156,547	181,831	198,898	165,521	112,499	125,409	1,706,107
2	28 Waco	2020	136,513	129,648	126,835	96,723	106,647	136,487	174,208	197,403	185,112	124,606	110,290	108,997	1,633,470
2	29 Waco	Total	463,591	441,028	392,239	287,791	295,003	415,772	522,299	581,685	569,842	422,595	322,008	364,361	5,078,214
	30		<i>c</i> ,						<i>co.c.to</i>	<i>cr</i> 477	<b>67</b> 3/3	20 507	25 433	اديرور	F00 000
	2 Abilene	2018	64,907 EC 042	53,4/3	40,813	32,553	34,197	55,138	68,64Z	65,450	57,302	39,58/	35,433	49,443	598,002
	33 Abilene	2019	51,013	50,902	40,270	34,374	38,610	41,403	64 948	68 640	59 348	38 769	37,629	41,827	579,499
-	4 Abilene	Total	172 862	157 851	132 933	101 421	104 266	147 161	188,697	198,356	181.479	128,809	113,989	137,850	1.765.675
	35		1,2,002	157,052	102,000	101,411	20 1,200	2.11,202	200,021	,		,	,		-,,
3	36 Wichita Falls	2018	90,633	76,643	63,252	48,520	49,947	81,513	105,377	107,421	92,805	63,647	48,073	65,568	893,399
3	37 Wichita Falls	2019	76,647	76,496	71,404	50,218	47,003	61,282	84,346	100,223	104,051	80,716	55,843	63,752	871,991
3	38 Wichita Falls	2020	69,211	68,917	60,581	49,151	54,049	70,323	95,952	104,118	92,055	60,618	54,874	56,895	836,743
3	39 Wichita Falls	Total	236,491	222,056	195,237	147,889	150,999	213,118	285,675	311,761	288,921	204,980	158,790	186,215	2,602,133
4	40														
4	11 Midland Odessa	2018	226,154	201,463	156,816	135,106	152,332	252,103	288,033	280,193	252,359	177,654	148,071	197,963	2,468,246
	A2 Midland Odessa	2019	231,844	207,695	189,041	148,572	150,398	188,342	260,536	289,403	299,699	105 352	168,822	165 672	2,542,561
		2020	209,255	207,121	188,205	143,465	175,004	220,413	233,022	991 190	010 414	595 012	491 601	549 738	7 567 853
	r iviluiano Odessa	Iotai	007,251	010,2/8	554,000	429,103	477,014	000,001	040,391	001,180	040,414	200,015	401,091	570,750	1,007,003
-	+5			100 047	06 333	60 00¢	C2 27C	05 415	120 202	120.021	116 202	02 212	CE 14C	100.000	1 147 645
	to Denison 17 Denison	2018	117,339	108,847	30,23/	68 877	60,200	90,415 78 979	102 420	118 720	128 021	102.724	72.487	87,270	1,130.662
-	48 Denison	2019	96,941	94,897	85.315	66,810	67,609	83.157	115,812	129,615	115,635	78,115	69,630	76,156	1,079,692
-	19 Denison	Total	316.667	312.053	271.808	199.028	191.177	258.500	344.633	379.166	360.048	264.152	207,257	253,510	3,357,999
1	50		,,											···· •1	
5	51 System	2018	4,507,645	3,854,728	3,059,850	2,459,576	2,619,659	4,359,026	5,476,994	5,513,457	4,872,620	3,477,395	2,574,323	3,331,214	46,106,489
5	52 System	2019	3,780,587	3,830,953	3,555,312	2,569,971	2,573,174	3,518,705	4,499,618	5,147,216	5,511,429	4,425,701	2,880,512	3,189,906	45,483,085
5	53 System	2020	3,508,968	3,389,231	3,127,907	2,629,695	2,943,349	3,877,978	5,087,386	5,468,079	5,040,070	3,331,348	2,899,185	2,915,435	44,218,633
5	54 System	Total	11,797,200	11,074,913	9,743,069	7,659,242	8,136,183	11,755,710	15,063,999	16,128,753	15,424,119	11,234,445	8,354,020	9,436,555	135,808,207

### SPONSOR: D. E. NELSON

## SECONDARY SERVICE LESS THAN OR EQUAL TO 10 KW MONTHLY WEIGHTS

Line	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(I)	(m)	(n)
<u>No.</u>	Weather Station	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1	Dallas-Fort Worth	61 0%	59.4%	59.9%	60.2%	60.0%	60.0%	59 1%	59.2%	59.6%	60 7%	60.9%	60.8%	60.0%
2	Midland-Odessa	11.5%	13.2%	13.3%	13.2%	13.2%	12.2%	12.9%	12.4%	11.8%	11.4%	11.7%	11.7%	12.4%
3	Lufkin	3.7%	3.7%	3.5%	3.5%	3.6%	3.9%	3.9%	3.9%	3.9%	3.8%	3.6%	3.6%	3.7%
4	Abilene	3 0%	2 9%	2.8%	2.9%	2.9%	2.9%	3.1%	3.1%	3.0%	2.9%	3.0%	3.0%	3.0%
5	Sherman-Denison	3.3%	3 4%	3.3%	3.1%	3.1%	3.2%	3.3%	3.4%	3.4%	3.2%	3.2%	3.2%	3.3%
6	Killeen-Temple	3.4%	3 3%	3.3%	3.3%	3.3%	3.4%	3.3%	3 4%	3.5%	3.4%	3.4%	3.4%	3.4%
7	Waco	3.7%	3.7%	3.8%	3.7%	3 7%	3.8%	3.8%	3.9%	4.0%	4.0%	3.9%	3 8%	3.8%
8	Wichita Falls.	2.7%	2 6%	2.6%	2 6%	2.6%	2.6%	2.6%	2.7%	2.6%	2.6%	2.6%	2.6%	2.6%
9	Longview	4.3%	4.4%	4.2%	4.1%	4.2%	4.4%	4.5%	4.6%	4.7%	4.5%	4.2%	4 3%	4.4%
10	Austin	3.4%	3 4%	3 3%	3.4%	3 4%	3.4%	3.3%	3.4%	3 5%	3.5%	3.6%	3 5%	3.4%
11		100 0%	100.0%	100 0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
12														

13		SEASONAL WEIGHTS						
14		Nov to Mar	May to Sep					
15	Weather Station	HDD	CDD					
16	Dallas-Fort Worth	60.4%	59.6%					
17	Midland-Odessa	12.3%	12.5%					
18	Lufkin	3.6%	3.8%					
19	Abilene	2.9%	3.0%					
20	Sherman-Denison	3.3%	3.3%					
21	Killeen-Temple	3.4%	3.4%					
22	Waco	3.8%	3.9%					
23	Wichita Falls.	2.6%	2.6%					
24	Longview	4.3%	4.5%					
25	Austin	3.4%	3.4%					
26		100.0%	100.0%					

## SPONSOR: D. E. NELSON

#### SECONDARY SERVICE LESS THAN OR EQUAL TO 10 KW MONTHLY WEIGHTS

Line	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(I)	(m)	(n)
<u>No.</u>	Weather Station	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annuai
1	Dallas-Fort Worth	61.0%	59 4%	59.9%	60.2%	60 0%	60.0%	59 1%	59 2%	59.6%	60.7%	60.9%	60.8%	60.0%
2	Midland-Odessa	11.5%	13 2%	13.3%	13 2%	13 2%	12.2%	12.9%	12.4%	11.8%	11.4%	11.7%	11.7%	12.4%
3	Lufkin	3.7%	3.7%	3.5%	3 5%	3.6%	3 9%	3.9%	3.9%	3.9%	3.8%	3.6%	3.6%	3.7%
4	Abilene	3.0%	2.9%	2.8%	2.9%	2.9%	2.9%	3.1%	3 1%	3 0%	2.9%	3.0%	3 0%	3.0%
5	Sherman-Denison	3.3%	3 4%	3.3%	3 1%	3 1%	3 2%	3.3%	3 4%	3.4%	3 2%	3.2%	3.2%	3.3%
6	Killeen-Temple	3.4%	3 3%	3.3%	3.3%	3.3%	3.4%	3 3%	3.4%	3.5%	3.4%	3.4%	3.4%	3.4%
7	Waco	3.7%	3 7%	3 8%	3 7%	3 7%	3.8%	3.8%	3 9%	4 0%	4.0%	3 9%	3.8%	3 8%
8	Wichita Falls.	2.7%	2.6%	2.6%	2 6%	2.6%	2.6%	2 6%	2.7%	2.6%	2 6%	2 6%	2 6%	2.6%
9	Longview	4.3%	4.4%	4.2%	4.1%	4.2%	4 4%	4 5%	4.6%	4.7%	4.5%	4.2%	4 3%	4.4%
10	Austin	3 4%	3.4%	3.3%	3 4%	3.4%	3 4%	3.3%	3.4%	3.5%	3.5%	3.6%	3.5%	3.4%
	-	100 0%	100.0%	100 0%	100 0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100 0%	100.0%	100 0%

#### SPONSOR: D. E. NELSON

#### SECONDARY SERVICE LESS THAN OR EQUAL TO 10 KW WEIGHTS BY YEAR

Line	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(J)	(k)	(i)	(m)	(n)	(o)
<u>No.</u>	Weather Station	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
	1 Dallas-Fort Worth	2018	61 7%	59 0%	59 7%	61 0%	60 2%	60 0%	59 1%	59 7%	60 2%	61 1%	61 3%	60 7%	60 3%
	2 Dallas-Fort Worth	2019	60 9%	59 1%	60 0%	<b>59 2%</b>	59 5%	59 8%	58 7%	58 4%	58 9%	60 0%	60 1%	60 3%	59 6%
	3 Dallas-Fort Worth	2020	60 1%	60 2%	60 1%	50 4%	60 3%	60 2%	59 5%	59 6%	59 7%	61 0%	61 3%	61 6%	60 3%
	4 Dallas-Fort Worth	Total	61.0%	59.4%	59 9%	60.2%	60.0%	60.0%	59.1%	59.2%	59.6%	60.7%	60.9%	60.8%	60.0%
	5			52 00		00 270		00 0,0	35 170	55 2,0	55 0,0	00170	00 570		00 070
	6 Lufkin	2018	3 9%	3 6%	3 3%	3 5%	3 6%	3 9%	3 8%	3 9%	4 0%	3 9%	3.7%	3 7%	3 7%
	7 Lufkm	2019	3 5%	3 8%	3 5%	3 5%	3 6%	3 9%	3 9%	3 8%	3 8%	3 8%	3 5%	3 6%	3 7%
	8 Lufkm	2020	3 6%	3 7%	3 6%	3 6%	3 6%	3 8%	3 9%	3 9%	4 0%	38%	3 6%	3 6%	3 7%
	9 Lufkin	Total	3 7%	3 7%	3 5%	3 5%	3 6%	3 9%	3 9%	3 9%	3 9%	3 8%	3 6%	3 6%	3 7%
:	10														
	11 Austin	2018	3 6%	3 3%	3 2%	3 3%	3 3%	3 4%	3 2%	3 4%	3 6%	3 5%	3 6%	3 5%	3 4%
-	12 Austin	2019	3 4%	3 5%	3 3%	3 3%	3 4%	3 \$%	3 4%	3 4%	3 4%	3 5%	3 5%	3 4%	3 4%
		2020	3 4%	3 3%	3 4%	3 4%	3 4%	3 5%	3 4%	3 4%	3 6%	3 6%	3 6%	3 6%	3 5%
	14 Austin 15	lotal	3 4%	3 4%	5 5%	5 4%	3 4%	3 4%	3.3%	3 4%	3 5%	3 5%	3 6%	3 5%	3 4%
	15 16 Killeen	2018	3 496	3 7%	3 1%	3 7%	3 7%	3 394	3.7%	3 346	3 5%	3 5%	3 596	3 5%	3 3%
	17 Killeen	2019	3 4%	3 5%	3 4%	3 4%	3 4%	3 5%	3 4%	3 4%	3 4%	3 4%	3 4%	3 4%	3 4%
	18 Killeen	2020	3 4%	3 3%	3 4%	3 3%	3 4%	3 4%	3 4%	3 4%	3 5%	3 4%	3 5%	3 4%	3 4%
:	19 Killeen	Total	3 4%	3 3%	3 3%	3.3%	3 3%	3 4%	3 3%	3 4%	3.5%	3 4%	3 4%	3 4%	3 4%
:	20														
:	21 Longview	2018	4 5%	4 3%	4 0%	4 1%	4 1%	4 5%	4 6%	4 7%	4 8%	4 5%	4 3%	4 3%	4 4%
:	22 Longview	2019	4 2%	4 5%	4 3%	4 2%	4 2%	4 4%	4 5%	4 5%	4 7%	4 6%	4 2%	4 2%	4 4%
	23 Longview	2020	4 3%	4 4%	4 3%	4 1%	4 2%	4 4%	4 6%	4 6%	4 6%	4 4%	4 2%	4 3%	4 4%
	24 Longview	Total	4 3%	4 4%	4 2%	4 1%	4 2%	4 4%	4 5%	4.6%	4 7%	4 5%	4 2%	4 3%	4 4%
	25	2010	- 001	2.00	2.70	2.00		2.00		2.00	4.00	2.04	2.00/	- ex l	2.00/
	26 Waco	2018	38%	3 6%	3 /%	3 5%	3 6%	38%	3 8%	3 9%	4 0%	3 976	3 8%	3 8%	3 8%
	27 Wato 28 Wato	2019	3 7%	3 7%	3 8%	3 8%	3 6%	3 9%	3 9%	4.0%	4 1%	4 0%	3 9%	3.8%	3.9%
	29 Waco	Total	3.7%	3 7%	3.8%	3 7%	3 7%	3.8%	3.8%	3 9%	4 0%	4 0%	3 9%	3 8%	3 8%
	30			• • • •										•	
:	31 Abilene	2018	3 0%	2 8%	2 8%	2 8%	3 0%	3 1%	3 1%	3 1%	3 0%	28%	2 9%	2 9%	3 0%
	32 Abilene	2019	2 9%	3.0%	2.8%	2 8%	2 8%	2 8%	3 0%	3 2%	3 0%	2 9%	3.0%	3 0%	2 9%
:	33 Abilene	2020	3 0%	3 0%	2 9%	2 9%	3 0%	3 0%	3 1%	3 1%	3 0%	2 8%	2 9%	3 0%	3 0%
	34 Abilene	Total	3 0%	2 9%	2 8%	2 9%	2 9%	2 9%	3 1%	3 1%	3 0%	2 9%	3 0%	3 0%	3 0%
	35														
	36 Wichita Falls	2018	2 8%	2 6%	2 6%	2 6%	2 6%	2 7%	2 7%	28%	2 7%	2 6%	2.6%	2 /%	2 /%
	37 Wichita Falls	2019	2 5%	2 /%	2 /%	2 5%	2 5%	2 5%	2 6%	2/%	2 676	2 4%	2 6%	2 076	2 6%
	39 Wichita Falls	Total	2 0 %	2 6%	2 6%	2 6%	2 5%	2 5%	2 6%	2 7%	2 6%	2.6%	2 6%	2 6%	2 6%
	40	Total	1100	2 0/0	1 0/0	2 0/0	2 0/0	2 0/0	2 0/0					1	
	41 Midland Odessa	2018	9 9%	14 3%	14 4%	12 7%	13 3%	12 1%	13 1%	11 8%	10 9%	10 8%	11 2%	11 5%	12.1%
	42 Midland Odessa	2019	12 1%	12 6%	12 8%	14.1%	13 7%	12 5%	13 6%	13 5%	12 7%	11 9%	12 7%	12.5%	12 9%
	43 Midland Odessa	2020	12 5%	12 5%	12 7%	12 8%	12 7%	12 1%	12 1%	11 9%	11.7%	11 4%	11 3%	11 0%	12 1%
	44 Midland Odessa	Total	11 5%	13 2%	13 3%	13 2%	13 2%	12 2%	12 9%	12 4%	11 8%	11 4%	11 7%	11 7%	12 4%
	45														
	46 Denison	2018	3 4%	3 3%	3 2%	3 1%	3 1%	3 3%	3 4%	3 5%	3 4%	3 3%	3 2%	3.3%	3 3%
	47 Denison	2019	3 3%	3 5%	3 4%	3 2%	3 1%	3 2%	3 3%	3 3%	3 4%	3 3%	3 2%	3 3%	3 3%
	48 Denison	2020	3 3%	3 3%	3 2%	3 1%	3 1%	3 2%	3 4%	3 4%	3 5%	3.2%	5 1%	3 2%	3 2%
	49 Denison	Total	3 3%	3 4%	3 3%	3 1%	3 1%	3 2%	3 3%	3 4%	3 4%	3 2%	3 £%	3 2%	3 3%
	51 System	2018	100.0%	100.0%	100.0%	100.0%	100 0%	100 0%	100 0%	100 0%	100 0%	100 0%	100 0%	100 0%	100 0%
	52 System	2019	100 0%	100 0%	100 0%	100.0%	100 0%	100 0%	100 0%	100 0%	100 0%	100 0%	100 0%	100 0%	100 0%
	53 System	2020	100 0%	100 0%	100 0%	100 0%	100 0%	100 0%	100 0%	100 0%	100 0%	100 0%	100 0%	100 0%	100 0%
:	54 System	Total	100 0%	100 0%	100 0%	100 0%	100 0%	100 0%	100 0%	100 0%	100.0%	100 0%	100 0%	100 0%	100 0%

#### SPONSOR: D. E. NELSON

#### SECONDARY SERVICE LESS THAN OR EQUAL TO 10 KW SALES BY YEAR

Line	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(1)	()	(k)	(1)	(m)	(n)	(o)
<u>No</u>	Weather Station	Year	Jan	Feb	Mar	Apr	May	Jun	lut	Aug	Sep	Oct	Nov	Dec	Annual
	1 Dallas-Fort Worth	2018	106,705	98,570	89,926	82,141	80,006	97,042	110,777	109,709	103,271	89,471	79,563	89,507	1,136,687
	2 Dallas-Fort Worth	2019	97,973	92,639	91,169	79,931	79,650	88,323	96,970	104,030	111,369	100,337	84,564	89,131	1,116,086
	3 Dallas-Fort Worth	2020	92,307	90,883	86,079	77,173	77,341	89,374	102,664	106,802	102,271	87,700	85,846	85,162	1,083,600
	4 Dallas-Fort Worth	Total	296.985	282.092	267.174	239.245	236,997	274.739	310.411	320.541	316.912	277.507	249.972	263,799	3.336.374
	5		,				,		,						-,,
	6 Lufkin	2018	6,744	5,967	4,967	4,777	4,782	6,318	7,112	7,194	6,782	S,682	4,761	5,496	70,581
	7 Lufkin	2019	5,648	5,934	5,340	4,686	4,810	5,795	6,371	6,766	7,209	6,290	4,978	5,259	69,085
	8 Lufkin	2020	5,495	S,529	5,125	4,566	4,615	S,609	6,763	6,962	6,778	5,427	5,034	4,992	66,895
	9 Lufkin	Total	17,888	17,430	15,432	14,028	14,207	17,722	20,245	20,922	20,768	17,398	14,773	15,747	206,560
1	10														
1	1 Austin	2018	6,173	5,583	4,760	4,511	4,416	5,443	6,084	6,209	6,095	5,158	4,607	<b>5,160</b>	64,200
1	12 Austin	2019	5,412	5,466	5,054	4,514	4,562	5,121	5,608	6,005	6,426	5,811	4,909	5,029	63,918
	L3 Austin	2020	5,196	5,020	4,892	4,322	4,360	5,139	5,883	6,103	6,114	5,136	5,082	4,956	62,201
1		lotal	16,781	10,069	14,706	13,347	13,338	15,703	17,575	18,317	18,635	16,106	14,597	15,146	190,319
1	5 Killeen	2018	5 875	5 779	4 686	4 325	A 253	\$ 226	6 002	6 142	5 956	5 062	4 488	\$ 132	62 536
1	7 Killeen	2019	5,405	5,466	5,167	4,534	4,557	5,192	5.657	6,105	6,476	5,757	4,799	4,968	64,083
t	8 Killeen	2020	5,208	4,979	4,819	4,252	4,344	5,086	5,873	6,116	5,991	4,927	4,863	4,696	61,153
1	9 Killeen	Total	16,488	15,724	14,672	13,111	13,154	15,614	17,532	18,363	18,423	15,745	14,150	14,797	187,772
2	20													•	
2	21 Longwew	2018	7,750	7,157	6,077	5,545	5,495	7,277	8,587	8,656	8,256	6,655	5,537	6,358	83,350
2	22 Longview	2019	6,765	7,003	6,572	5,626	5,556	6,533	7,358	8,089	8,817	7,672	\$,913	6,207	82,111
2	23 Longview	2020	6,596	6,591	6,098	5,299	5,364	6,533	7,937	8,263	7,899	6,301	5,910	5,929	78,721
2	4 Longview	Total	21,112	20,751	18,747	16,470	16,415	20,342	23,882	25,007	24,972	20,628	17,360	18,495	244,182
2	25													,	
	26 Waco	2018	6,541	5,998	5,586	4,826	4,768	6,088	7,051	7,243	6,890	5,775	4,985	5,591	71,343
	/ Waco	2019	6,003	6,090	5,829	5,040	5,035	5,696	6,286	6,844	7,513	6,685	5,372	5,583	71,977
	20 Waco	2020	5,721	5,590	5,493	4,844	4,966	5,829	6,753	7,183	6,942	5,696	3,407	5,249	212.053
	20	IDIA	10,204	17,679	10,900	14,710	14,770	17,013	20,091	21,270	21,545	10,137	13,824	10,4221	213,032
	1 Ahilene	2018	5 235	4 719	4,209	3 808	3 995	4.932	5 821	5 6 1 6	5.074	4 107	3,801	4.337	\$5.655
	32 Abilene	2019	4,733	4,644	4,298	3,841	3,808	4,101	4,898	5,660	5,703	4,850	4,240	4,467	55,242
1	33 Abilene	2020	4,628	4,527	4,186	3,731	3,791	4,453	5,434	S,566	5,162	4,084	4,122	4,192	53,875
:	4 Abilene	Total	14,596	13,890	12,693	11,380	11,594	13,487	16,153	16,842	15,939	13,041	12,163	12,996	164,773
3	35														
3	36 Wichita Falls	2018	4,873	4,327	3,927	3,545	3,474	4,440	5,074	5,065	4,673	3,856	3,392	3,958	50,604
3	37 Wichita Falls	2019	4,184	4,228	4,029	3,418	3,396	3,663	4,272	4,752	4,955	4,353	3,611	3,896	48,758
3	38 Wichita Falls	2020	4,044	3,953	3,696	3,260	3,226	3,690	4,501	4,636	4,401	3,518	3,510	3,496	45,932
1	39 Wichita Falls	Total	13,102	12,508	11,652	10,223	10,097	11,793	13,847	14,452	14,030	11,727	10,513	11,350	145,294
	10	2010		22.052	71.647	17.000	17 674	10 406	24 517	11 610	10	15 027	14 472	16 000	729 105
	11 Milliond Odessa	2018	19,425	19 773	19 444	19.052	18 793	13,490	24,517	21,010	74 074	19,857	17 857	18,548	241,266
	13 Midland Odessa	2013	19,252	18,924	18,175	16.302	16,288	17.924	20.924	21.391	20,067	16,323	15,805	15,281	216,656
4	14 Midland Odessa	Total	55.827	62.649	59,262	52,452	\$2,255	55,894	67,852	67,046	62,799	52,040	48,134	S0,818	687,028
	15														
	16 Denison	2018	5.845	5.531	4.806	4.137	4.090	5,259	6,296	6,349	5,888	4,789	4,124	4,829	61,943
4	7 Denison	2019	5,257	5,414	5,122	4,265	4,131	4,727	5,419	5,958	6,383	5,477	4,560	4,826	61,539
4	18 Denison	2020	5,083	4,981	4,614	3,991	3,955	4,716	5,850	6,175	5,727	4,570	4,302	4,363	58,327
4	19 Denison	Total	16,185	15,926	14,543	12,393	12,176	14,702	17,565	18,482	17,997	14,836	12,986	14,018	181,809
5	50														
2	51 System	2018	172,893	167,084	150,587	134,714	132,954	161,631	187,322	183,801	171,542	146,392	129,730	147,356	1,886,004
4	52 System	2019	160,805	156,657	152,024	134,906	133,798	147,626	165,249	178,245	188,925	167,111	140,803	147,915	1,874,065
	od System	2020	153,530	150,977	143,178	127,738	128,251	148,352	1/2,582	1/9,195	1/2,352	143,681	410 472	138,316	5 557 167
	M SYSLEM	10131	401,229	4/4,/1/	443,768	351,351	333,003	437,009	323,133	241,243	221,013	437,164	410,475	100,007	3,337,102

4791

## SPONSOR: D. E. NELSON

## SECONDARY SERVICE GREATER THAN 10 KW MONTHLY WEIGHTS

Line	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(I)	(m)	(n)
<u>No.</u>	Weather Station	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1	Dallas-Fort Worth	74.6%	74.2%	74.1%	74.3%	73.9%	74.0%	74.2%	74.1%	74.0%	74.4%	74.0%	73.9%	74.1%
2	Midland-Odessa	6.6%	6.7%	6.9%	6.6%	6.9%	6.4%	6.4%	6.4%	6.3%	6.2%	6 7%	7 0%	6.6%
З	Lufkin	2.4%	2.5%	2.4%	2 5%	2.5%	2.6%	2.5%	2.5%	2.5%	2.5%	2.5%	2.4%	2.5%
4	Abilene	1.2%	1.2%	1.1%	1.1%	1.1%	1.1%	1.2%	1.2%	1.2%	1.1%	1.1%	1.2%	1.2%
5	Sherman-Denison	2.4%	2.5%	2.4%	2.4%	2 4%	2.4%	2.4%	2 4%	2.4%	2.4%	2.4%	2.4%	2.4%
6	Killeen-Temple	2.6%	2 6%	2 6%	2.6%	2.6%	2 7%	2.7%	2.7%	2.8%	2.7%	2 7%	2.7%	2.7%
7	Waco	3 2%	3.3%	3 3%	3.3%	3.3%	3.4%	3.3%	3.4%	3.5%	3.4%	3.3%	3.2%	3.3%
8	Wichita Falls.	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.4%	1.5%
9	Longview	3.0%	3.1%	3.0%	3.1%	3.1%	3.2%	3 2%	3 1%	3.2%	3 1%	3 1%	3.1%	3.1%
10	Austin	2.5%	2.6%	2.6%	2.6%	2.7%	2.7%	2.6%	2.6%	2.7%	2.7%	2.7%	2.7%	2.7%
11	-	100.0%	100.0%	100.0%	100.0%	100.0%	100 0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

12									
13		SEASONAL WEIGHTS							
14		Nov to Mar	May to Sep						
15	Weather Station	HDD	CDD						
16	Dallas-Fort Worth	74.1%	74.0%						
17	Midland-Odessa	6.8%	6.5%						
18	Lufkin	2.4%	2.5%						
19	Abilene	1.2%	1.2%						
20	Sherman-Denison	2.4%	2.4%						
21	Killeen-Temple	2.6%	2.7%						
22	Waco	3.3%	3.4%						
23	Wichita Falls.	1.5%	1.5%						
24	Longview	3.1%	3.1%						
25	Austin	2.6%	2.7%						
26		100.0%	100.0%						