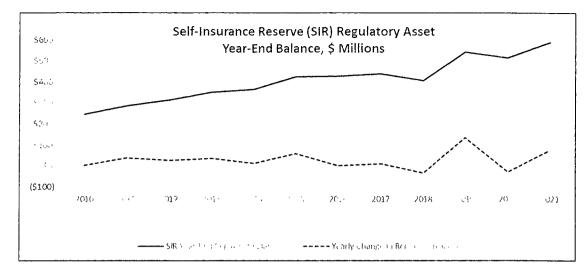
1 Commission has ordered rate base inclusion of the balance of the 2 unrecovered self-insurance reserve deficit in each of Oncor's base rate 3 proceedings during the past 20 years, namely Docket Nos. 22350, 35717, 4 38929, and 46957. In addition, the self-insurance deficit balance related to 5 transmission and distribution property of the then-bundled utility was 6 included in rate base in Docket No. 11735.

- Q. PLEASE DESCRIBE THE UNRECOVERED BALANCE IN THE SELFINSURANCE RESERVE THAT ONCOR IS SEEKING TO INCLUDE IN
 RATE BASE IN THIS RATE PROCEEDING.
- 10 Α. As of December 31, 2021, the books and records of the Company reflect a 11 regulatory asset deficit balance (*i.e.*, reserve shortage) related to self-12 insured property and liability losses of \$588,545,657. Since November 27, 13 2017, as shown on Exhibit AT-4, the Company's rates have provided for 14 \$117.6 million annually to recover both historical losses (*i.e.*, losses incurred 15 prior to December 31, 2016) and current loss events covered by the self-16 insurance program. However, as shown in column (d) of Exhibit AT-4. 17 Oncor's annual loss experience has averaged more than \$140.5 million 18 annually during the five years since the Docket No. 46957 test year-end, 19 resulting in the self-insurance reserve net shortage growing an additional \$365.26 million [see line 16, column (f) of Exhibit AT-4] by the end of the 20 21 2021 test year. These loss expenditures are further detailed in Exhibits 22 GSW-3 and GSW-4 of Mr. Wilson's direct testimony.
- Q. HOW HAS ONCOR'S SELF-INSURANCE RESERVE DEFICIT BALANCE
 CHANGED OVER THE RECENT PAST?
- A. The following graph depicts the self-insurance reserve's overall deficit
 balance at year-end, along with accompanying changes to rate base, from
 27 2010 through 2021. This graph and its supporting calculations are
 contained in Exhibit AT-5 to my testimony. The 2021 year-end deficit
 balance is the highest the deficit has ever been at year-end.



2 Q. FOR PURPOSES OF THE SELF-INSURANCE RESERVE, HOW HAS 3 ONCOR TREATED PROPERTY DAMAGE AND LIABILITY LOSSES INCURRED IN CONNECTION WITH THE RECENTLY ACQUIRED 4 5 TRANSMISSION AND DISTRIBUTION ASSETS PREVIOUSLY OWNED 6 BY SHARYLAND AND/OR SHARYLAND DISTRIBUTION & 7 TRANSMISSION SERVICES, L.L.C., WHICH ARE NOW HELD BY 8 ONCOR ELECTRIC DELIVERY COMPANY NTU LLC ("ONCOR NTU")?

1

A. Upon acquisition of the Oncor NTU assets, any property damage or liability
losses incurred in connection with the Oncor NTU assets were handled in
the same manner as property damage and liability losses incurred in
connection with Oncor's legacy assets for purposes of self-insurance
reserve accounting. All post-acquisition Oncor NTU asset-related property
damage and/or liability loss events are reflected in the list of historical claim
losses attached to Mr. Wilson's testimony as Exhibit GSW-3.

Q. DOES ONCOR INTEND TO CONTINUE TRACKING PROPERTY
DAMAGE AND LIABILITY LOSSES RELATED TO THE ONCOR NTU
ASSETS IN THE SAME MANNER AS IT TRACKS SUCH DAMAGE AND
LOSSES RELATED TO ONCOR'S OTHER ASSETS?

A. Yes. Going forward, Oncor proposes to continue this same accounting
 practice, with property damage and liability losses to the Oncor legacy
 assets and the Oncor NTU assets all reflected in one self-insurance reserve
 PUC Docket No.

Thenmadathil – Direct Oncor Electric Delivery 2022 Rate Case account. Oncor requests its self-insurance reserve accrual to be set on a
 consolidated basis, consistent with the consolidated rates proposed in
 Oncor's RFP.

4 Q. PLEASE DISCUSS HOW ONCOR'S SELF-INSURANCE RESERVE
5 BALANCE HAS BEEN FUNCTIONALIZED.

The Company maintains separate accounting for the self-insurance reserve 6 Α. 7 transactions for the distribution and transmission functions. Each individual property and liability loss is analyzed to determine the function or functions 8 9 to which it relates; similar to the accruals allowed through rates, the costs 10 related to these self-insured incidents are recorded directly in the respective 11 function's accounting records. Therefore, the resultant regulatory asset or 12 regulatory liability balance has been directly assigned to the distribution or 13 transmission function.

14B. Cost of Service Adjustments15Q. PLEASE SUMMARIZE THE FUNDING ALLOWANCE ADJUSTMENTS TO16THE SELF-INSURANCE RESERVE THAT YOU ARE SPONSORING.17A. As detailed in the following table, I am proposing that both components of

the self-insurance reserve allowance amount be increased above the test 18 year level. First, to more adequately provide self-insurance coverage for 19 20 subsequent loss incidents, I propose increasing the annual accrual from \$75 million to the \$122.2 million level as recommended in the direct testimony 21 22 of Mr. Wilson. This recommended \$122.2 million is intended to cover 23 annual expected losses only. Second, I propose that the test year-end deficit balance of approximately \$588.55 million (including about \$223.29 24 25 million of the remaining balance of unamortized losses approved in Docket 26 No. 46957) be amortized over a five-year period.

			Test Year Accrual	Proposed Accrual			
		Loss Accrual – Distribution	\$73,500,000	\$115,845,600			
		Loss Accrual – NTU-TRN	-	611,000			
		Loss Accrual – Transmission	1,500,000	5,743,400			
		Loss Accrual – Total	\$75,000,000	\$122,200,000			
		Amortization – Distribution Amortization – NTU-TRN	\$42,501,868	\$112,551,630 730,703			
		Amortization – Transmission	140,227	4,426,798			
		Amortization – Total	\$42,642,095	\$117,709,131			
		Total Reserve Allowance	\$117,642,095	\$239,909,131			
1			ccrual for Annu				
2	Q.	PLEASE DESCRIBE THE	ADJUSTMENT	YOU ARE PROPOSING TO			
3		INCREASE THE ANNUAL S	SELF-INSURANC	CE RESERVE ACCRUAL.			
4	Α.	As described above, the de	eficit balance in t	he Company's self-insurance			
5		reserve has grown by more	than \$365.26 mi	llion in the five years between			
6		the December 31, 2016 te	st year-end from	Docket No. 46957, and the			
7		December 31, 2021 test ye	ar-end presented	I in this case. The significant			
8		growth in the unrecovered b	alance highlights	the need to increase the level			
9		of funding, so that current	ratepayers are p	aying their share of the costs			
10		necessary to providing elec	tric service. Ac	cordingly, I am proposing the			
11		annual accrual to cover current losses be set at the \$122.2 million funding					
12		level recommended in Mr. V	level recommended in Mr. Wilson's direct testimony.				
13		2. <u>Amortization of</u>	of the Self-Insur	ance Reserve Balance			
14	Q.	PLEASE DESCRIBE THE	ADJUSTMENT Y	OU ARE PROPOSING FOR			
15		THE AMORTIZATION OF	THE SELF-INSU	RANCE RESERVE DEFICIT			
16		BALANCE.					
17	Α.	In Docket No. 46957, the Co	ommission appro	ved a settlement that included			
18		recovery of the then-exi	sting regulatory	asset deficit balance of			
19		\$426,420,946 in self-insura	ance reserve lo	sses over a 10-year period,			
20		resulting in approximately \$4	2.6 million of anr	nual amortization expense. As			
21		shown on line 8 of my Exhib	it AT-4, there ren	nains an unrecovered balance			
22		of approximately \$223.29 n	nillion at the end	of the 2021 test year. This			
23		balance remains because le	ss than half of th	e approved ten-year recovery			

PUC Docket No.

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period has passed since the date on which Docket No. 46957 rates became
effective, November 27, 2017. For the remainder of my discussion on this
issue, I will refer to this as the "First Tier" balance. As shown on line 16 of
Exhibit AT-4, more than \$365.26 million of additional unreimbursed selfinsured losses have been realized since the end of the Docket No. 46957
test year. For the remainder of my discussion on this issue, I will refer to
this as the "Second Tier" balance.

8 In total, as shown on Schedule II-B-12, Oncor's present unrecovered
9 balance in its self-insurance reserve totals \$588,545,657 at the end of the
2021 test year.

11Q.HOW IS ONCOR PROPOSING TO RECOVER THE TEST YEAR-END12BALANCE OF LOSSES IN THE SELF-INSURANCE RESERVE?

A. I propose that the First Tier and the Second Tier be combined and
recovered over a new five-year amortization period. While this will extend
the recovery of the First Tier balance, it serves to lessen the impact on
customers by smoothing the amount over the new proposed amortization
period. Under this proposed recovery, rates would reflect \$117,709,131
annually to recover these historical losses (*i.e.*, \$588,545,657/ five-year
recovery).

As PURA § 36.064(d)(2) and 16 TAC § 25.231(c)(2)(E) permit, I have 20 21 provided the existing deficit balance in the self-insurance reserve of 22 \$588,545,657 to Company witness Mr. Ledbetter for inclusion in Oncor's 23 invested capital balance as a regulatory asset. In addition, I have provided 24 Mr. Ledbetter with the annual loss amortization level of \$117,709,131 to be 25 included in the determination of Oncor's total Operation and Maintenance 26 expense requirement. I also recommend that the Commission establish a 27 target self-insurance reserve surplus amount of \$267.5 million. This target 28 reserve surplus amount is appropriate to provide an actuarially sound 29 provision for coverage of Oncor's self-insured losses, as recommended by 30 Mr. Wilson.

Q. WHAT WOULD HAPPEN IF THE BALANCE IN THE SELF-INSURANCE
 RESERVE-RELATED REGULATORY ASSET ACCOUNT WERE TO
 REACH ZERO PRIOR TO RATES BEING RESET IN A FUTURE RATE
 CASE?

In this case Oncor proposes to redirect any amount of self-insurance 5 Α. 6 reserve-related regulatory asset amortization expense to the self-insurance 7 reserve account once the \$588,545,657 deficit balance is fully recovered and reaches a zero balance. This would enable the self-insurance reserve 8 9 to continue accruing towards a target reserve surplus balance, which would 10 then begin accumulating in a regulatory liability account as provided for in PURA § 36.064 and 16 TAC § 25.231. Thus, there exists no chance of 11 "over-recovery" relating to the self-insurance reserve-related regulatory 12 asset account balance because any amounts that are collected once this 13 14 regulatory asset balance reaches zero would serve to offset future selfinsurable losses and potentially reduce Oncor's rate base; thus, they would 15 continue to benefit ratepayers. Mr. Wilson's direct testimony further 16 17 discusses the mechanics of the self-insurance reserve.

18Q.PLEASEEXPLAINHOWYOUHAVEFUNCTIONALIZEDTHE19REQUESTED LEVEL OF SELF-INSURANCE RESERVE EXPENSE.

A. Similar to the direct assignment of the self-insurance reserve balance to the
 proper business function, the annual provisions provided for in rates, along
 with the annual amortization of the existing deficit balances, can also be
 directly assigned to the appropriate distribution and transmission functions.
 Because Oncor maintains separate accounting for the self-insurance
 reserve transactions for the distribution and transmission functions,
 functionalization of these costs are directly assignable.

273.Self Insurance Summary28Q.PLEASE SUMMARIZE YOUR PROPOSED TEST YEAR LEVEL OF29EXPENSES RELATED TO ONCOR'S SELF-INSURANCE PLAN.

1 Α. I am proposing that Oncor include in rates the amount of \$122.2 million for 2 the annual self-insurance reserve accrual to cover the costs of expected 3 annual losses: this represents an increase of \$47.2 million over the \$75 4 million annual amount previously approved in Docket No. 46957. I am also proposing an annual amortization of \$117.7 million to recover Oncor's self-5 insurance reserve deficit balance that existed at the end of the test year. 6 7 Further, as provided for in PURA § 36.064(d)(2) and 16 TAC § 8 25.231(c)(2)(E), the self-insurance reserve deficit balance in the amount of \$588,545,657 at the 2021 test year end should be included in the 9 10 Company's total balance of invested capital.

11Q.WHY IS IT IMPORTANT FOR THE COMPANY TO RECOVER SELF-12INSURANCE RESERVE ACCRUALS AS REQUESTED?

13 For the reasons explained in Mr. Wilson's testimony, self-insuring Oncor's Α. 14 property and liability losses represents a lower cost alternative to 15 commercial insurance, as prescribed for in PURA § 36.064 and Commission Rule § 25.231(b)(2)(G). Recovering past losses due to storms 16 17 or other covered events within a reasonable amount of time aligns the cost 18 recovery time period with the customers that benefit from storm restoration expenditures and avoids intergenerational inequities. For the reasons 19 20 stated above and in Mr. Wilson's testimony, the Commission should 21 approve the Company's requested self-insurance reserve recovery levels.

22

VI. SUMMARY AND CONCLUSION

23 Q. PLEASE SUMMARIZE YOUR DIRECT TESTIMONY.

A. In summary, my conclusions and recommendations are that:

the balance of \$152,038,741 of M&S inventories (based on the 13month average test year balance, as adjusted) is reasonable and
should be included in Oncor's calculation of invested capital;

the balance of negative \$73,484,424 of CWC (based on the results
of Oncor's lead-lag study) is reasonable and should be reflected in
Oncor's calculation of invested capital;

. .

the balance of \$115,153,396 of prepayment costs (based on the 13-

month average test year balance, as adjusted) is reasonable and

the adjusted test year-end balance of negative \$162,100 for

should be included in Oncor's calculation of invested capital;

- allowance of \$117,709,131. 15 Q. DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?
- Α. Yes. 16

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AFFIDAVIT

STATE OF TEXAS § § § COUNTY OF Dallas

BEFORE ME, the undersigned authority, on this day personally appeared Ashley Thenmadathil, who, having been placed under oath by me, did depose as follows:

My name is Ashley Thenmadathil. I am of legal age and a resident of the State of Texas. The foregoing direct testimony and the attached exhibits offered by me are true and correct, and the opinions stated therein are, to the best of my knowledge and belief, accurate, true and correct.

Ashley Thenmadathil

SUBSCRIBED AND SWORN TO BEFORE ME by the said Ashley Thenmadathil on this 18% day of 4%, 2022.



Notary Public, State of Texas

PUC Docket No.

Thenmadathil - Direct **Oncor Electric Delivery** 2022 Rate Case

Subchapter J. COSTS, RATES AND TARIFFS.

DIVISION 1. RETAIL RATES.

§25.231. Cost of Service.

- (a) Components of cost of service. Except as provided for in subsection (c)(2) of this section, relating to invested capital; rate base, and §23.23(b) of this title, (relating to Rate Design), rates are to be based upon an electric utility's cost of rendering service to the public during a historical test year, adjusted for known and measurable changes. The two components of cost of service are allowable expenses and return on invested capital.
- (b) Allowable expenses. Only those expenses which are reasonable and necessary to provide service to the public shall be included in allowable expenses. In computing an electric utility's allowable expenses, only the electric utility's historical test year expenses as adjusted for known and measurable changes will be considered, except as provided for in any section of these rules dealing with fuel expenses.
 - (1) **Components of allowable expenses.** Allowable expenses, to the extent they are reasonable and necessary, and subject to this section, may include, but are not limited to the following general categories:
 - (A) Operations and maintenance expense incurred in furnishing normal electric utility service and in maintaining electric utility plant used by and useful to the electric utility in providing such service to the public. Payments to affiliated interests for costs of service, or any property, right or thing, or for interest expense shall not be allowed as an expense for cost of service except as provided in the Public Utility Regulatory Act §36.058.
 - (B) Depreciation expense based on original cost and computed on a straight line basis as approved by the commission. Other methods of depreciation may be used when it is determined that such depreciation methodology is a more equitable means of recovering the cost of the plant.
 - (C) Assessments and taxes other than income taxes.
 - (D) Federal income taxes on a normalized basis. Federal income taxes shall be computed according to the provisions of the Public Utility Regulatory Act §36.060.
 - (E) Advertising, contributions and donations. The actual expenditures for ordinary advertising, contributions, and donations may be allowed as a cost of service provided that the total sum of all such items allowed in the cost of service shall not exceed three-tenths of 1.0% (0.3%) of the gross receipts of the electric utility for services rendered to the public. The following expenses shall be included in the calculation of the three-tenths of 1.0% (0.3%) maximum:
 - (i) funds expended advertising methods of conserving energy;
 - (ii) funds expended advertising methods by which the consumer can effect a savings in total electric utility bills;
 - (iii) funds expended advertising methods to shift usage off of system peak; and
 - (iv) funds expended promoting renewable energy.
 - (F) Nuclear decommissioning expense. The following restrictions shall apply to the inclusion of nuclear decommissioning costs that are placed in an electric utility's cost of service.
 - (i) An electric utility owning or leasing an interest in a nuclear-fueled generating unit shall include its cost of nuclear decommissioning in its cost of service. Funds collected from ratepayers for decommissioning shall be deposited monthly in irrevocable trusts external to the electric utility, in accordance with §25.301 of this title (relating to Nuclear Decommissioning Trusts). All funds held in short-term investments must bear interest. The level of the annual cost of decommissioning for ratemaking purposes will

Subchapter J. COSTS, RATES AND TARIFFS.

DIVISION 1. RETAIL RATES.

§25.231(b)(1)(F)(i) continued

be determined in each rate case based on an allowance for contingencies of 10% of the cost of decommissioning, the most current information reasonably available regarding the cost of decommissioning, the balance of funds in the decommissioning trust, anticipated escalation rates, the anticipated return on the funds in the decommissioning trust, and other relevant factors. The annual amount for the cost of decommissioning determined pursuant to the preceding sentence shall be expressly included in the cost of service established by the commission's order.

- (ii) In the event that an electric utility implements an interim rate increase, including an increase filed under bond, an incremental change in decommissioning funding shall be included in the increase.
- (iii) An electric utility's decommissioning fund and trust balances will be reviewed in general rate cases. In the event that an electric utility does not have a rate case within a five-year period, the commission, on its own motion or on the motion of the commission's Office of Regulatory Affairs, the Office of Public Utility Counsel, or any affected person, may initiate a proceeding to review the electric utility's decommissioning cost study and plan, and the balance of the trust.
- (iv) An electric utility shall perform, or cause to be performed, a study of the decommissioning costs of each nuclear generating unit that it owns or in which it leases an interest. A study or a redetermination of the previous study shall be performed at least every five years. The study or redetermination should consider the most current information reasonably available on the cost of decommissioning. A copy of the study or redetermination shall be filed with the commission and copies provided to the commission's Office of Regulatory Affairs and the Office of Public Utility Counsel. An electric utility's most recent decommissioning study or redeterminations shall be filed with the commission within 30 days of the effective date of this subsection. The five year requirement for a new study or redetermination shall begin from the date of the last study or redetermination.
- (G) Accruals credited to reserve accounts for self-insurance under a plan requested by an electric utility and approved by the commission. The commission shall consider approval of a self insurance plan in a rate case in which expenses or rate base treatment are requested for a such a plan. For the purposes of this section, a self insurance plan is a plan providing for accruals to be credited to reserve accounts. The reserve accounts are to be charged with property and liability losses which occur, and which could not have been reasonably anticipated and included in operating and maintenance expenses, and are not paid or reimbursed by commercial insurance. The commission will approve a self insurance plan to the extent it finds it to be in the public interest. In order to establish that the plan is in the public interest, the electric utility must present a cost benefit analysis performed by a qualified independent insurance consultant who demonstrates that, with consideration of all costs, self-insurance is a lower-cost alternative than commercial insurance and the ratepayers will receive the benefits of the self insurance plan. The cost benefit analysis shall present a detailed analysis of the appropriate limits of self insurance, an analysis of the appropriate annual accruals to build a reserve account

effective date 04/13/05

Subchapter J. COSTS, RATES AND TARIFFS.

DIVISION 1. RETAIL RATES.

§25.231(b)(1)(G) continued

for self insurance, and the level at which further accruals should be decreased or terminated.

- (H) Postretirement benefits other than pensions (known in the electric utility industry as "OPEB"). For ratemaking purposes, expense associated postretirement benefits other than pensions (OPEB) shall be treated as follows:
 - (i) OPEB expense shall be included in an electric utility's cost of service for ratemaking purposes based on actual payments made.
 - (ii) An electric utility may request a one-time conversion to inclusion of current OPEB expense in cost of service for ratemaking purposes on an accrual basis in accordance with generally accepted accounting principles (GAAP). Rate recognition of OPEB expense on an accrual basis shall be made only in the context of a full rate case.
 - (iii) An electric utility shall not be allowed to recover current OPEB expense on an accrual basis until GAAP requires that electric utility to report OPEB expense on an accrual basis.
 - (iv) For ratemaking purposes, the transition obligation shall be amortized over 20 years.
 - (v) OPEB amounts included in rates shall be placed in an irrevocable external trust fund dedicated to the payment of OPEB expenses. The trust shall be established no later than six months after the order establishing the OPEB expense amount included in rates. The electric utility shall make deposits to the fund at least once per year. Deposits on the fund shall include, in addition to the amount included in rates, an amount equal to fund earnings that would have accrued if deposits had been made monthly. The funding requirement can be met with deposits made in advance of the recognition of the expense for ratemaking purposes. The electric utility shall, to the extent permitted by the Internal Revenue Code, establish a postretirement benefit plan that allows for current federal income tax deductions for contributions and allows earnings on the trust funds to accumulate tax free.
 - (vi) When an electric utility terminates an OPEB trust fund established pursuant to clause (v) of this subparagraph, it shall notify the commission in writing. If excess assets remain after the OPEB trust fund is terminated and all trust related liabilities are satisfied, the electric utility shall file, for commission approval, a proposed plan for the distribution of the excess assets. The electric utility shall not distribute any excess assets until the commission approves the disbursement plan.
- (2) **Expenses not allowed.** The following expenses shall never be allowed as a component of cost of service:
 - (A) legislative advocacy expenses, whether made directly or indirectly, including, but not limited to, legislative advocacy expenses included in professional or trade association dues;
 - (B) funds expended in support of political candidates;
 - (C) funds expended in support of any political movement;
 - (D) funds expended promoting political or religious causes;
 - (E) funds expended in support of or membership in social, recreational, fraternal, or religious clubs or organizations;
 - (F) funds promoting increased consumption of electricity;
 - (G) additional funds expended to mail any parcel or letter containing any of the items mentioned in subparagraphs (A)-(F) of this paragraph;

Subchapter J. COSTS, RATES AND TARIFFS.

DIVISION 1. RETAIL RATES.

§25.231(b)(2) continued

- (H) payments, except those made under an insurance or risk-sharing arrangement executed before the date of the loss, made to cover costs of an accident, equipment failure, or negligence at an electric utility facility owned by a person or governmental body not selling power within the State of Texas;
- (I) costs, including, but not limited to, interest expense, of processing a refund or credit of sums collected in excess of the rate finally ordered by the commission in a case where the electric utility has put bonded rates into effect, or when the electric utility has otherwise been ordered to make refunds;
- (J) any expenditure found by the commission to be unreasonable, unnecessary, or not in the public interest, including but not limited to executive salaries, advertising expenses, legal expenses, penalties and interest on overdue taxes, criminal penalties or fines, and civil penalties or fines.
- (c) **Return on invested capital.** The return on invested capital is the rate of return times invested capital.
 - (1) **Rate of return.** The commission shall allow each electric utility a reasonable opportunity to earn a reasonable rate of return, which is expressed as a percentage of invested capital, and shall fix the rate of return in accordance with the following principles.
 - (A) The return should be reasonably sufficient to assure confidence in the financial soundness of the electric utility and should be adequate, under efficient and economical management, to maintain and support its credit and enable it to raise the money necessary for the proper discharge of its public duties. A rate of return may be reasonable at one time and become too high or too low because of changes affecting opportunities for investment, the money market, and business conditions generally.
 - (B) The commission shall consider efforts by the electric utility to comply with the statewide integrated resource plan, the efforts and achievements of the electric utility in the conservation of resources, the quality of the electric utility's services, the efficiency of the electric utility's operations, and the quality of the electric utility's management, along with other applicable conditions and practices.
 - (C) The commission may, in addition, consider inflation, deflation, the growth rate of the service area, and the need for the electric utility to attract new capital. The rate of return must be high enough to attract necessary capital but need not go beyond that. In each case, the commission shall consider the electric utility's cost of capital, which is the weighted average of the costs of the various classes of capital used by the electric utility.
 - (i) Debt capital. The cost of debt capital is the actual cost of debt at the time of issuance, plus adjustments for premiums, discounts, and refunding and issuance costs.
 - (ii) Equity capital. For companies with ownership expressed in terms of shares of stock, equity capital commonly consists of the following classes of stock.
 - (I) Common stock capital. The cost of common stock capital shall be based upon a fair return on its market value.
 - (II) Preferred stock capital. The cost of preferred stock capital is the actual cost of preferred stock at the time of issuance, plus an adjustment for premiums, discounts, and refunding and issuance costs.

Subchapter J. COSTS, RATES AND TARIFFS.

DIVISION 1. RETAIL RATES.

§25.231(c) continued

- (2) Invested capital; rate base. The rate of return is applied to the rate base. The rate base, sometimes referred to as invested capital, includes as a major component the original cost of plant, property, and equipment, less accumulated depreciation, used and useful in rendering service to the public. Components to be included in determining the overall rate base are as set out in subparagraphs (A)-(F) of this paragraph.
 - (A) Original cost, less accumulated depreciation, of electric utility plant used by and useful to the electric utility in providing service.
 - (i) Original cost shall be the actual money cost, or the actual money value of any consideration paid other than money, of the property at the time it shall have been dedicated to public use, whether by the electric utility which is the present owner or by a predecessor.
 - (ii) Reserve for depreciation is the accumulation of recognized allocations of original cost, representing recovery of initial investment, over the estimated useful life of the asset. Depreciation shall be computed on a straight line basis or by such other method approved under subsection (b)(1)(B) of this section over the expected useful life of the item or facility.
 - (iii) Payments to affiliated interests shall not be allowed as a capital cost except as provided in the Public Utility Regulatory Act §36.058.
 - (B) Working capital allowance to be composed of, but not limited to the following:
 - (1) Reasonable inventories of materials, supplies, and fuel held specifically for purposes of permitting efficient operation of the electric utility in providing normal electric utility service. This amount excludes appliance inventories and inventories found by the commission to be unreasonable, excessive, or not in the public interest.
 - (ii) Reasonable prepayments for operating expenses. Prepayments to affiliated interests shall be subject to the standards set forth in the Public Utility Regulatory §36.058.
 - (11) A reasonable allowance for cash working capital. The following shall apply in determining the amount to be included in invested capital for cash working capital:
 - (I) Cash working capital for electric utilities shall in no event be greater than one-eighth of total annual operations and maintenance expense, excluding amounts charged to operations and maintenance expense for materials, supplies, fuel, and prepayments.
 - (II) For electric cooperatives, river authorities, and investor-owned electric utilities that purchase 100% of their power requirements, one-eighth of operations and maintenance expense excluding amounts charged to operations and maintenance expense for materials, supplies, fuel, and prepayments will be considered a reasonable allowance for cash working capital.
 - (III) Operations and maintenance expense does not include depreciation, other taxes, or federal income taxes, for purposes of subclauses (I), (II), and (V) of this clause.
 - (IV) For all investor-owned electric utilities a reasonable allowance for cash working capital, including a request of zero, will be determined by the use of a lead-lag study. A lead-lag study will be performed in accordance with the following criteria:

Subchapter J. COSTS, RATES AND TARIFFS.

DIVISION 1. RETAIL RATES.

17

§25.231(c)(2)(B)(iii)(IV) continued

- (-a-) The lead-lag study will use the cash method; all non-cash items, including but not limited to depreciation, amortization, deferred taxes, prepaid items, and return (including interest on long-term debt and dividends on preferred stock), will not be considered.
- (-b-) Any reasonable sampling method that is shown to be unbiased may be used in performing the lead-lag study.
- (-c-) The check clear date, or the invoice due date, whichever is later, will be used in calculating the lead-lag days used in the study. In those cases where multiple due dates and payment terms are offered by vendors, the invoice due date is the date corresponding to the terms accepted by the electric utility.
- (-d-) All funds received by the electric utility except electronic transfers shall be considered available for use no later than the business day following the receipt of the funds in any repository of the electric utility (e.g. lockbox, post office box, branch office). All funds received by electronic transfer will be considered available the day of receipt.
- (-e-) For electric utilities the balance of cash and working funds included in the working cash allowance calculation shall consist of the average daily bank balance of all noninterest bearing demand deposits and working cash funds.
- (-f-) The lead on federal income tax expense shall be calculated by measurement of the interval between the mid-point of the annual service period and the actual payment date of the electric utility.
- (-g-) If the cash working capital calculation results in a negative amount, the negative amount shall be included in rate base.
- (V) If cash working capital is required to be determined by the use of a lead-lag study under the previous subclause and either the electric utility does not file a lead lag study or the electric utility's lead-lag study is determined to be so flawed as to be unreliable, in the absence of persuasive evidence that suggests a different amount of cash working capital, an amount of cash working capital equal to negative one-eighth of operations and maintenance expense including fuel and purchased power will be presumed to be the reasonable level of cash working capital.
- (C) Deduction of certain items which include, but are not limited to, the following:
 - (i) accumulated reserve for deferred federal income taxes;
 - (ii) unamortized investment tax credit to the extent allowed by the Internal Revenue Code;
 - (iii) contingency and/or property insurance reserves;
 - (1v) contributions in aid of construction;
 - (v) customer deposits and other sources of cost-free capital;

effective date 04/13/05

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Subchapter J. COSTS, RATES AND TARIFFS.

DIVISION 1. RETAIL RATES.

§25.231(c)(2) continued

- (D) Construction work in progress (CWIP). The inclusion of construction work in progress is an exceptional form of rate relief. Under ordinary circumstances the rate base shall consist only of those items which are used and useful in providing service to the public. Under exceptional circumstances, the commission will include construction work in progress in rate base to the extent that:
 - (i) the electric utility has proven that:
 - (I) the inclusion is necessary to the financial integrity of the electric utility; and
 - (II) major projects under construction have been efficiently and prudently planned and managed. However, construction work in progress shall not be allowed for any portion of a major project which the electric utility has failed to prove was efficiently and prudently planned and managed; or
 - (ii) for a project ordered by the commission under §25.199 of this title (relating to Transmission Planning, Licensing and Cost-recovery for Utilities within the Electric Reliability Council of Texas), if the commission determines that conditions warrant the inclusion of CWIP in rate base, the project is being efficiently and prudently planned and managed, and there will be a significant delay between initial investment and the initial cost recovery for a transmission project.
- (E) Self-insurance reserve accounts. If a self insurance plan is approved by the commission, any shortages to the reserve account will be an increase to the rate base and any surpluses will be a decrease to the rate base. The electric utility shall maintain appropriate books and records to permit the commission to properly review all charges to the reserve account and determine whether the charges being booked to the reserve account are reasonable and correct.
- (F) Requirements for post test year adjustments.
 - Post test year adjustments for known and measurable rate base additions (increases) to historical test year data will be considered only as set out in subclauses (I)-(IV) of this clause.
 - (I) Where the addition represents plant which would appropriately be recorded:
 - (-a-) for investor-owned electric utilities in FERC account 101 or 102;
 - (-b-) for electric cooperatives, the equivalent of FERC accounts 101 or 102.
 - (II) Where each addition comprises at least 10% of the electric utility's requested rate base, exclusive of post test year adjustments and CWIP.
 - (III) Where the plant addition is deemed by this commission to be inservice before the rate year begins.
 - (IV) Where the attendant impacts on all aspects of a utility's operations (including but not limited to, revenue, expenses and invested capital) can with reasonable certainty be identified, quantified and matched. Attendant impacts are those that reasonably follow as a consequence of the post test year adjustment being proposed.

Subchapter J. COSTS, RATES AND TARIFFS.

DIVISION 1. RETAIL RATES.

§25.231(c)(2)(F) continued

- (ii) Each post test year plant adjustment will be included in rate base at:
 - (I) the reasonable test year-end CWIP balance, if the addition is constructed by the electric utility; or,
 - (II) the reasonable price, if the addition represents a purchase, subject to original cost requirements, as specified in Public Utility Regulatory Act §36.053.
- (iii) Post test year adjustments for known and measurable rate base decreases to historical test year data will be allowed only when clause (i)(IV) of this subparagraph and the criteria described in subclauses (I) and (II) of this clause are satisfied.
 - (I) The decrease represents:
 - (-a-) plant which was appropriately recorded in the accounts set forth in clause (i)(I) of this subparagraph;
 - (-b-) plant held for future use;
 - (-c-) CWIP (mirror CWIP is not considered CWIP); or
 - (-d-) an attendant impact of another post test year adjustment.
- (II) Plant that has been removed from service, mothballed, sold, or removed from the electric utility's books prior to the rate year.

ONCOR ELECTRIC DELIVERY COMPANY LLC LEAD-LAG STUDY

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Introduction

("TAC") Pursuant 16 Texas Administrative Code 6 to 7 §25.231(c)(2)(B)(iii)(IV), the Public Utility Commission of Texas ("Commission"), 8 provides investor-owned electric utilities a reasonable allowance for cash working 9 capital ("CWC") that is to "be determined by the use of a lead-lag study." In 10 general, a lead-lag study serves to calculate the level of investor-supplied capital 11 necessary to fund electric utility operating activities during the period of time 12 between when electric delivery service is provided to customers and the 13 subsequent receipt of revenues related to performing such delivery services.

14 Oncor Electric Delivery Company LLC ("Oncor" or "Company") has performed this Lead-Lag Study to determine the working capital requirements 15 16 necessary to fund its day-to-day operating activities. The Lead-Lag Study reviews cash-related transaction costs reflected in the Company's consolidated 17 books and records that occurred during the twelve-month study period of October 18 19 1, 2020 through September 30, 2021 ("Lead-Lag Study Test Year"). Oncor and Oncor NTU have proposed to consolidate their rates in this proceeding, and 20 therefore this Lead-Lag Study also consolidates these two entities as applicable 21 22 for purposes of this study. Therefore all references to Oncor or the Company 23 also include Oncor NTU where applicable. In turn, the number of revenue lag days and expense lead days arising from the study are then applied to operating 24 revenues and expenses, as adjusted, for the calendar year ended December 31. 25 2021 ("2021 Test-Year") to calculate the Company's CWC requirement. 26

The analysis provides a basis for quantifying the leads associated with the receipt of goods and services prior to payment and the lags associated with the delay in the receipt of funds for electric delivery service previously provided. The measurement of these leads and lags is expressed in days for various categories of expenses and revenues. The lag for revenue collection is netted

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against the various expense leads, and the resulting "net" lead or lag is multiplied
by pro forma daily revenue requirements for various cost of service categories.
When added to the average daily bank balances and other general working funds
of the Company, the net summation of these pro forma daily revenue
requirements totals to the net CWC allowance requirement.

6 The following sections of this Lead-Lag Study describe the methodology 7 and underlying principles related to measuring the key components used in 8 calculating the lag days for revenue collection and the lead days for expense 9 payments. In addition, adjusting items necessary to normalize various elements 10 of the CWC allowance are also discussed.

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Revenue Analysis

14 Revenue lag days represent the amount of time between (i) the midpoint 15 of the delivery of service to customers and (ii) the receipt of the revenue related 16 to such service. A utility's revenue lag day total typically consists of four key 17 components: (1) the service period lag; (2) the billing lag that reflects the time 18 required to process and issue bills; (3) the collection lag that identifies the time 19 delay between the issuing of bills and the receipt of the billed revenues; and (4) the 20 fund clearance lag that reflects any delay in the bank's clearance of deposited 21 check payments. The total number of days produced by the four components 22 represents the average amount of time between the delivery of service to 23 customers and the receipt of the related revenues for such service.

24 The first of these four components, the "service period," measures the 25 time span over which services are provided. The significance of this measure is 26 that it establishes the "common point" from which the timing difference between 27 cost incurrence and revenue recovery is measured. Theoretically, that point may 28 be at the beginning of the period, at the end of the period, or at some point in 29 between. In determining a utility's CWC requirement, the traditional approach 30 has been to assume that the mid-point of the customer billing cycle reflects the 31 average length of time between delivery of power to an end-use premise and the

1 collection of a billing meter reading. This traditional approach is based on an 2 assumption that power delivery and demand are constant throughout a 3 customer's billing cycle, and the Company followed this traditional approach in 4 this Lead-Lag Study. To simplify this computational process, the study applies the average of 30.44 days per month over an annual period (i.e., 365.25 days / 5 6 12 months = 30.4375 days, or 30.44 days rounded to two decimal places). The 7 calculated "common point" for measuring service reflects the mid-point of the 8 average 30.44 days in a billing cycle, or 15.22 days (*i.e.*, 30.44 days / 2 = 15.22 9 davs).

10 The second component of the revenue lag reflects the time consumed in 11 the billing process, or the "billing lag." The Company utilizes cycle billing and 12 typically will capture the meter reading value from Oncor's Advanced Metering 13 System ("AMS") at midnight on the specified meter reading date for each cycle. 14 Following the download of meter data from AMS, Oncor's Customer Care & 15 Billing ("CC&B") system will produce an invoice on the subsequent business day. 16 In general, meter readings taken on a Monday will be invoiced on Tuesday and 17 meter readings taken on a Friday will be invoiced on Monday of the next week (or the next non-holiday weekday). A random sample of invoices was utilized to 18 19 measure the time between the meter reading date and the invoice date. The 20 sum of the time period from the midpoint of the meter reading period to midnight on the meter reading date plus the average period from the meter reading date to 21 22 the invoice date results in the total billing lag utilized for purposes of the Lead-Lag Study. As shown on my workpaper WP/II-B-9/1-1-2, the average period of 23 24 time to reflect the meter reading process, uploading of metering data, and the 25 preparation of retail electric provider ("REP") invoicing is a total of 2.803 days.

The third component, the "collection lag," reflects the time between billing for the services rendered and the receipt from customers of the revenues billed. Oncor's revenue data is contained in two systems – CC&B and the Financial Information System ("FIM"). As measured in the Lead-Lag Study Test Year, approximately 87% of revenues are billed through the CC&B system. For the CC&B revenues, this study uses the daily accounts receivable balances to

Exhibit AT-2 Page 4 of 15

determine collection lag. For the FIM revenues, this study uses all of the
invoices during the Lead-Lag Study Test Year to calculate the dollar-weighted
average of the days between the billing date and the collection date. As shown
on workpaper WP/II-B-9/1-1, the average collection lag for the CC&B component
totals 34.716 days and the FIM collection lag component totals 36.019 days.

6 This CC&B collection lag calculated in the Lead-Lag Study aligns with the 7 expected collection lag under Section 4.4.5 of Oncor's Tariff for Retail Delivery 8 Service, which states, in part, that: "The Company shall specify the due date on the invoice, and the due date shall be the 35th calendar day after the transmittal 9 date of the Valid Invoice, unless the 35th day falls on a weekend or Banking 10 11 Holiday, in which case the due date shall be the following Business Day that is 12 not a Banking Holiday." (Also see 16 TAC § 25.214(d), § 4.4.5 of the Pro-forma 13 Retail Delivery Tariff.) The separate CC&B and FIM revenue collection lag 14 components were dollar-weighted to calculate the overall revenue lag days.

The fourth component of the revenue recovery lag, the "cash receipts float," represents the time between the receipt of funds from customers until the funds clear the banks and are available to the Company. All payments from the REPs are made electronically; therefore, the cash receipts float is zero.

As summarized on Exhibit AT-3, page 4 and shown in WP/II-B-9/1, the average overall revenue lag is 52.90 days.

Expense Analysis

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Operation and Maintenance Expenses

In determining the lead days for operation and maintenance expenses
("O&M"), total system O&M expenses were first separated into two groups –
Labor and Non-labor. Labor expenses were divided into two categories: payroll
costs and incentive pay. Non-labor O&M costs were divided into five categories:
(1) affiliate charges, (2) Transmission Cost of Service ("TCOS") charges, (3)
amortized O&M expenses, (4) pension and supplemental retirement benefits, (5)
other post-employment benefits ("OPEBs"), and (6) other third-party O&M

- expenses. The CWC study independently measures the number of lead days for
 each of these five Non-Labor O&M expense groups.
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Labor Expenses – Payroll

5 The lead days for payroll were based upon the Company's wage payment 6 process that employs both semi-monthly and bi-weekly pay periods. This 7 calculation produces the number of total days between the middle of the period 8 for which employees' costs were incurred and the disbursement of the payments. 9 As shown on WP/II-B-9/2, approximately 82.87% of the Company's payroll 10 expense is paid through the semi-monthly pay period process. The lead days for 11 semi-monthly payroll reflect the pay periods ending on the 10th and the 25th day 12 of each month. In general, semi-monthly paid employees are paid five days after 13 the end of the first period and at the end of the month for the second period. Pay 14 dates falling on weekends or Oncor-observed holidays are paid on the first 15 preceding workday. Pay dates falling on a banking holiday, that is not an Oncor-16 observed holiday, are paid on the first preceding non-banking holiday. The lead 17 days for semi-monthly payroll costs were computed by determining the average 18 days of service being compensated and adding the days between the end of 19 each service period and the payment to employees. This calculation produces 20 the number of total days between the middle of the period for which employee 21 compensation costs were realized and the disbursement of the payments. 22 Please refer generally to WP/II-B-9/2, WP/II-B-9/3 and associated workpapers for 23 details.

24 For the bi-weekly payroll, the days were calculated by determining the 7-25 day midpoint of the service period (14-day service period divided by 2) and the 26 days between the end of the service period ending on Sunday and the payment 27 made to employees on the following Friday. This calculation produces a total of 28 the days between the midpoint of the service period and the normal disbursement of these costs. If the Friday pay day falls on a bank holiday, 29 30 employees are paid on the immediately preceding business day. During the Lead-Lag Study Test Year, all paydays for bi-weekly employees were on their 31

scheduled Friday except for one, resulting in an average payment lag of 4.96
days (*i.e.*, calculating 25 bi-weekly periods at 5 payment lag days and 1 biweekly period at 4 payment lag days).

The vast majority (99.77% as shown on WP/II-B-9/2-1) of wages are paid by direct deposit, with the remainder being paid by manual check. Direct deposit payments clear on the payment date. A random, statistically valid sample of manual payroll check clearing times was used to determine the check float applicable to manual check payments. As summarized on Exhibit AT-3, page 5 and shown on WP/II-B-9/2, the average lead for payroll-related labor costs is 12.11 days.

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Labor Expenses – Incentive Compensation

Oncor's Performance Enhancement Plan ("PEP"), Executive Annual Incentive Plan ("EAIP") and Long-Term Incentive Plan ("LTIP") are based on calendar year performance and are paid in the month of March. During the Lead-Lag Study Test Year, these plans were based on calendar year 2020 performance, which was paid on March 8, 2021, and calendar year 2021 performance, which was paid on March 7, 2022

The lead days associated with incentive plans were calculated from the 19 mid-point of the performance measurement period to the date of payment. The 20 21 manual check adjustment was then applied to applicable incentive programs and the amounts were dollar-weighted in order to develop the overall lead days for 22 23 the Company's incentive pay programs. As summarized on Exhibit AT-3, page 6 24 and shown on WP/II-B-9/3, the average lead for Oncor's incentive-based compensation is 249.35 days. Please refer to WP/II-B-9/3 and associated 25 26 workpapers for details.

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28 Non-labor Expenses – Affiliate Charges - Sempra

The lead days on affiliate charges were calculated using the payment due date set forth in the agreements amount the affiliated entities. In all instances, the payment due date was later than the date that the charges were actually paid. The number of lead days from the midpoint of the month being billed to
 the corresponding payment due date. Because payments were made
 electronically, no check float lead was assigned. Exhibit AT-3 Page 7, provides a
 summary of the calculation of the 44.96 day average lead for affiliate charges.

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6 Non-labor Expenses – Affiliate Charges - Other

The lead days on Affiliate Charges – Other were calculated using a randomized
sample as explained in the section titled Non-labor Expenses – Other Third-party
Transactions Expenses. The expenses related to Affiliate Charges – Other are
part of the normal accounts payable process.

11 Non-labor Expenses – TCOS Charges

12 TCOS Charges were separated into Oncor and non-Oncor transmission 13 service providers. The net lead/lag days on the Oncor TCOS charges are zero 14 because these amounts are internal to Oncor. The expense lead days for non-15 Oncor TCOS charges were measured from the midpoint of the service period to 16 the payment date. Oncor is billed the TCOS charges monthly for approximately 17 30-31 days of service, so the average service period was calculated using 18 365.25 days divided by 12 months which equals 30.4375 days (rounded to 19 30.44). The period from the midpoint of the service period to the end of the 20 service period is 15.22 days (30.44 divided by 2). Oncor pays these charges 21 electronically 35 days after the end of the service period in conformance with 22 Commission requirements under 16 TAC § 25.202(a); therefore, as shown on 23 Exhibit AT-3, page 8, the overall expense lead days for non-Oncor TCOS 24 charges is the sum of 15.22 days plus 35 days, which equals 50.22 days. 25 Because all payments are made electronically, no check float lead was assigned. 26 Please refer to WP/II-B-9/5 for details.

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28 Non-labor Expenses – Amortized O&M Expenses

16 TAC §25.231(c)(2)(B)(iii)(IV)(-a-) states that: "The lead-lag study will
use the cash method; all non-cash items, including but not limited to ...
amortization, ... will not be considered." In conformance with this requirement,

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the amortized O&M expenses were excluded from this Lead-Lag Study.

2 16 TAC §25.231(c)(2)(B)(iii)(IV)(-a-) states that: "The lead-lag study will 3 use the cash method; all non-cash items, including but not limited to ... prepaid 4 items, ... will not be considered." In conformance with this requirement, Oncor 5 witness Mr. W. Alan Ledbetter has provided the amount of the 2021 Test-Year 6 prepaid O&M expense amounts that have been removed from this Lead-Lag 7 Study (as shown on Exhibit AT-3, page 2). In addition, other non-cash O&M 8 expense amounts were excluded from the CWC requirement. These additional 9 adjustment costs are related to the amortization of regulatory assets and capital 10 leases already included in net plant. The adjustments reflect a total of about 11 \$216 million of Oncor's requested 2021 Test-Year allowance for O&M expense. 12 as shown in column (b), lines 12-28 of page 1 of Exhibit AT-3. These 13 amortization amounts have been provided by Oncor witness Mr. W. Alan 14 Ledbetter, so that their effect can be removed from the CWC allowance 15 determination. The removal of these costs is necessary to remove the non-cash 16 amortization of O&M expenses that are included in adjusted 2021 Test-Year 17 revenue requirement total. These include the annual amortization amounts of 18 rate case expenses, deferred benefits costs, deferred losses arising from REP 19 payment defaults, deferred AMS-related expenses, and self-insurance reserve 20 historical loss amounts. Any adjustments to the Company's requested rate base 21 treatment for these costs would likely result in the need to revise the calculation 22 of the CWC allowance.

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Non-labor Expenses – Pension and Supplemental Retirement Benefits

During the Lead-Lag Study Test Year, there were no cash contributions related to the 2021 benefit period made in the 2021 Test-Year to the Company's pension plan. Thus, this Lead-Lag Study reflects the payment due dates specified by the Pension Protection Act of 2006 ("PPA-2006"), since the specified payment dates are known and measurable. As shown on pages 9-10 of Exhibit AT-3, PPA-2006 dictates that one-fourth of a company's defined benefit plan contributions will be deposited in a qualified trust on the 15th day of the fourth

1 month, seventh month, tenth month, and first subsequent month of the 2 company's pension plan year. Since Oncor's defined benefit pension plan 3 reflects a calendar year, the specified dates are April 15, July 15, and October 15 4 of the subject year, and January 15 of the subsequent year. Application of these 5 dates provides a pro-forma expense lead of 59.25 days for pension expense. 6 The pro-forma pension plan payment amounts shown in WP/II-B-9/6-4 reflect 7 equalized guarterly payments totaling \$29.6 million, which is the sum of the 8 pension payments paid in the Lead-Lag Test Year.

9 In addition, Oncor's contributions to its supplemental retirement plan are 10 made on a monthly basis. Weighting the expense lead for the supplemental 11 retirement plan with the pension plan expense lead provides a weighted average 12 payment lead of 53.51 days for pension and supplemental retirement benefits 13 expense.

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Non-labor Expenses – Other Postemployment Benefits

16 Consistent with 16 TAC §25.231(b)(1)(H), Oncor makes contributions to its 17 qualified irrevocable external trust fund dedicated to the payment of other 18 postemployment benefits ("OPEBs", sometimes also referred to as 19 postretirement benefits other than pensions) on a monthly basis. Specifically, 16 20 TAC §25.231(b)(1)(H)(v) provides that amounts included in rates for OPEBs:

21 ... shall be placed in an irrevocable external trust fund dedicated to the payment of OPEB expenses. ... The electric utility shall make 22 23 deposits to the fund at least once per year. Deposits on the fund 24 shall include, in addition to the amount included in rates, an amount equal to fund earnings that would have accrued if deposits had 25 26 been made monthly. The funding requirement can be met with 27 deposits made in advance of the recognition of the expense for 28 ratemaking purposes. 29

30 As shown on page 11 of Exhibit AT-3, the weighted average payment lead

- 31 for OPEB expense is 10.71 days. Please refer to WP/II-B-9/6-5 for details.
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- 33 Non-labor Expenses Other Third-party Transaction Expenses
- 34 The measure of lead days for Other Third-party Transaction expenses has

been calculated based upon a review of a randomized, statistically valid sample
 of expenses recorded during the Lead-Lag Study Test Year for Oncor's
 Transmission, Distribution, and Corporate accounting functions.

4 The Company's Internal Audit Department calculated a statistical sample 5 size using the following parameters for Distribution and Transmission:

6	Confidence:	95%
7	Precision:	±10%
8	Error Rate:	5

9 This resulted in a sample size of 116 transactions each from the Distribution 10 business unit and the Transmission business unit. A random sample was then 11 selected by stratifying the population of each business unit's transactions using 12 the following parameters: item amounts less than \$10,000; item amounts between and including \$10,000 and \$25,000; and item amounts greater than 13 14 \$25,000. The number of sample items selected for each stratum was based on 15 the total number of transactions within that parameter for each business unit. In 16 total, 232 transactions of the approximate 135,500 total third-party transactions 17 recorded during the Lead-Lag Study Test Year were analyzed.

In addition, a randomly selected sample of ten transactions related to
Corporate activities were analyzed as part of the Third-Party O&M review. The
transactions reflected in the accounting records of the Corporate function reflect
less than 0.3% of the total population of transactions during the Lead-Lag Study
Test Year, and the results of this smaller sample component have been dollarweighted with the other 99.7% of the O&M expense population.

24 Consistent with recent lead-lag studies accepted by the Commission, 25 Oncor's study estimates the midpoint of the benefit period independently for each 26 invoice rather than assuming that the invoice date reflects the vendor's service 27 period for all invoices. Each of the sample items was carefully examined to 28 determine the benefit period and the invoice due date. The available original 29 source documentation is included in the relied-upon documents supporting this 30 Lead-Lag Study. Lead days were calculated from the midpoint of the benefit 31 period (if available) until the later of the invoice due date or the actual payment 32 cleared date, as prescribed in 16 TAC §25.231(c)(2)(B)(iii)(IV)(-c-).

1 The benefit period was determined by examining each invoice and the 2 type of expense. Many invoices clearly state the benefit period-for example, an 3 invoice for employee medical health claims states the exact period covered by the payment. For goods, the benefit period conservatively was assumed to be 4 5 on the date that the goods were delivered or shipped (if delivery date is not 6 shown). For invoices for legal counsel services, the benefit period is the mid-7 point of the month that services were rendered to Oncor. If no other information 8 was available, the invoice date was used as the assumed date of the benefit 9 period. Best judgment was used in examining each invoice to determine a 10 conservative and realistic benefit period.

11 The lead day amount for each invoice was dollar-weighted and totaled to 12 determine the overall lead days for each business unit. The business unit lead 13 days were dollar-weighted using the total population dollars for each respective 14 business unit, and the combination of these weighted lead days yielded the 15 overall Other Third-Party O&M lead days. As shown on Exhibit AT-3, Page 12, 16 the weighted-dollar average expense lead calculated in this sampling analysis of 17 other third-party O&M transactions is approximately 46.93 days. Please refer to WP/II-B-9/6 and associated workpapers for details. 18

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20 Current Federal Income Taxes

21 The lead days for federal income taxes were calculated by measuring the 22 days between the midpoints of the annual calendar year service periods (as the 23 tax is incurred throughout the year) and the statutory payment due dates. 24 Payment of at least 100% of the estimated tax for the year must be made in guarterly payments on April 15th, June 15th, September 15th, and December 15th. 25 26 If the scheduled payment date falls on a weekend or holiday, the quarterly 27 payment is due on the first workday after the indicated date. As documented on 28 Exhibit AT-3, page 13, the average lead for payment of federal income taxes is 36.25 days. Please refer to WP/II-B-9/7 for details. 29

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Deferred Federal Income Tax Expense

16 TAC §25.231(c)(2)(B)(iii)(IV)(-a-) states that: "The lead-lag study will
use the cash method; all non-cash items, including but not limited to ... deferred
taxes, ... will not be considered." In conformance with this rule, deferred federal
income tax was excluded from this Lead-Lag Study.

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Taxes Other Than Income Taxes

8 This group of other taxes consists of: (1) payroll-related taxes [Federal 9 Insurance Contributions Act ("FICA"), Federal Unemployment Tax Act ("FUTA"), 10 and State Unemployment Tax Act ("SUTA")]; (2) state gross margin taxes; (3) 11 local franchise taxes; and (4) ad valorem taxes.

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13 Payroll-Related Taxes

14 The expense lead for FICA (*i.e.*, Social Security and Medicare) payroll 15 taxes was calculated from the midpoint of the applicable work period to the 16 payment date of the tax. Currently, the payment of FUTA/SUTA taxes is heavily 17 weighted in the first quarter of a calendar year, since most Oncor employees 18 reach the tax ceiling early in the year. However, the unemployment benefit 19 period is the entire calendar year, resulting in most of the tax being paid well 20 before the mid-point of the calendar year. The calculation of lead days for 21 FUTA/SUTA reflects the difference between the statutory due dates (which is 22 generally after Oncor's actual payment date) and the mid-point of the calendar 23 year. Page 14 of Exhibit AT-3 provides a summary of the 11.66 day calculation 24 of the average lead for payroll-related taxes. Please refer to WP/II-B-9/8 and 25 associated workpapers for details.

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27 <u>State Gross Margin Taxes</u>

The Lead-Lag Study Test Year reflects the payment of the Texas State Gross Margin Tax ("GMT") attributable to portions of the operating privilege periods of calendar year 2020 and the 2021 Test-Year. Applying those payments to the annual payment date of May 15, 2020 (for the 2020 operating privilege period) and May 15, 2021 (for the 2021 operating privilege period)
results in an average lag of 47.17 days for the Texas GMT. This is the same
approach Oncor has used in its two most recent base rate cases. Please refer to
WP/II-B-9/9 for details.

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7 Local Gross Receipts Taxes

8 To determine the average lead days for local gross receipts agreement 9 payments (also called local franchise taxes), this Lead-Lag Study analyzes 10 Oncor's 25 largest local gross receipts tax payments, which account for about 11 69% of the total population of Oncor's annual local gross receipts tax payments. 12 As summarized on page 16 of Exhibit AT-3, the average lead for local gross 13 receipts agreement payments is estimated to be 54.99 days. Please refer to 14 WP/II-B-9/10 for details.

15 Oncor witness Mr. W. Alan Ledbetter has provided the amount of the 2021 16 Test-Year amortization of prepaid local gross receipts taxes totaling 17 approximately \$205 million so that the amount of these pre-paid local gross 18 receipts taxes could be removed from the CWC calculation, as shown on Exhibit 19 AT-3, page 3.

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21 Ad Valorem Taxes

The calculation of lead days for ad valorem taxes is based on Oncor's 25 largest ad valorem tax payments, which represent approximately 68% of the total amount of ad valorem taxes paid. The average lead days for ad valorem taxes reflect the period from the mid-point of the benefit period through the date the payment was cleared through the banking system. As shown on Exhibit AT-3, page 17, the average lead for ad valorem taxes is 209.90 days. Please refer to WP/II-B-9/11 for details.

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30 Depreciation Expense and Return

31 16 TAC §25.231(c)(2)(B)(iii)(IV)(-a-) states that: "The lead-lag study will

1 use the cash method; all non-cash items, including but not limited to 2 depreciation, ... and return (including interest on long-term debt and dividends on 3 preferred stock), will not be considered." In conformance with this rule, the 4 depreciation expense and return levels shown in column (b), lines 38 and 40, of 5 page 1 of Exhibit AT-3, were excluded from this Lead-Lag Study. 6 7 **Other Working Capital Components** 8 9 **Cash Balances** 10 This Lead-Lag Study reflects a reduction to CWC due to the check float 11 added to the expense leads for all expenses paid by check. Because the Company cannot control when checks will clear the bank and because of other 12 13 minimum balance requirements imposed by banks, the Company must maintain 14 certain levels of available cash in its bank accounts. Therefore, the actual bank 15 cash balances were included in CWC since these funds must be supplied by 16 investors. During the 2021 Test-Year, the Company's daily non-interest-bearing 17 bank account balances averaged \$8,420,858. As shown on Exhibit AT-3, page 18 18, this amount has been reflected in Oncor's requested CWC allowance. The 19 inclusion of average cash balances is consistent with 16 TAC (2)(2)(B)(iii)(IV)(-e), which states that "...the balance of cash and 20 21 working funds included in the working cash allowance calculation shall consist of 22 the average daily bank balances of all non-interest bearing demand deposits and 23 working cash funds." Please refer to WP/II-B-9/12 for details. 24 25 **Other CWC Components**

- As summarized on Exhibit AT-3, page 19, the other cash working capital components include:
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- payroll withholdings;

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- miscellaneous working funds (travel advances);
- miscellaneous deferred debits and credits (adjusted to remove
 amounts later transferred to the self-insurance reserve);

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- home purchase plan; and
- accounts receivable from employees.

3 These components represent various assets and liabilities not explicitly 4 identified elsewhere in the rate base, as well as deductions for non-investor 5 sources of capital not explicitly deducted from rate base. Likewise, they are not 6 directly measured in the analysis of O&M or other expenses and must be 7 separately included in the CWC measure. The inclusion of this negative 8 \$8,308,312 balance of working fund balances is consistent with 16 TAC 9 §25.231(c)(2)(B)(iii)(IV)(-e-), which states that "...the balance of cash and 10 working funds included in the working cash allowance calculation shall consist of 11 the average daily bank balances of all non-interest bearing demand deposits and 12 working cash funds." Please refer to WP/II-B-9/13 and associated workpapers 13 for details.

Conclusion

16 This Lead-Lag Study was performed to determine the amount of cash 17 working capital that should be included in Oncor's rate base as of the end of the 18 2021 Test-Year. Revenue lag days and the number of lead days for major 19 expense items have been calculated using actual average time spans when 20 available, or through sampling techniques where the data was too voluminous, to 21 perform an analysis of relevant transactions during the Lead-Lag Study Test 22 Year. The calculation of CWC requirements resulting from this Lead-Lag Study 23 is fair and reasonable, consistent with 16 TAC §25.231, economic reality (*i.e.*, 24 actual cash effect), and relevant Commission precedent, and should be included 25 in rate base.

Exhibit	AT-3
Page 1	of 19

2022 RATE CASE ONCOR ELECTRIC DELIVERY COMPANY LLC CASH WORKING CAPITAL REQUIREMENT SUMMARY FOR THE TEST-YEAR ENDING DECEMBER 31, 2021

Line		Adjusted Test	Amortization of	Exhibit AT-3 Page	Avg. Daily	Lag Days (Ref Exh AT-3,	Expense	Exhibit AT-3 Page	Net	Working Capital
No.	Description(a)	Year Amount (b)	Prepayments	Ref	Expense		Lead Days	Ref	(Lead)/Lag	
	(a)	(0)	(c)	(d)	(e)=[(b)-{c)]/365 25	(f)	(g)	(h)	(ı)=(f)+(g)	(j) = (e) • (i)
1	Operation & Maintenance Expenses									
2	Labor									
3	Payroll	\$ 272,201,095	-		\$ 745,246	52 90	(12.11)	Page 5	40.79	\$ 30,398,584
4	Incentive Comp	27,578,590	-		75,506	52.90	(249.35)	Page 6	(196 45)	\$ (14,833,166)
5	Non-Labor									
6	Affiliate Charges - Sempra	115,750			317	52 90		Page 7	7 94	2,516
7 8	Affiliale Charges - Other TCOS	3,506,574	1,108,749		6,565	52 90	(46 93)	Page 12	5.97	39,192
8 9		647 044 600								
10	Oncor Non-Oncor	517,244,509 1,135,277,512	-		1,416,138	52.90	(50.22)	D	2.68	
11	Wholesale Distribution Substation Service (Oncor NTU Dist to Oncor Dist.	13,295,686	-		3,108,220 36,402	52,90	(50 22)	Page 8	2.68	8,330,031
12	Amortized O&M Expenses	13,293,000	-		30,402	-	-		-	-
13	Amortization of Rate Case Expenses	1,646,626			4,508	-	_		_	-
14	Amortization of Deferred OPEB	(4,094,647)	-		(11,211)	-	-		-	_
15	Amortization of Deferred Pension	31,107,535	-		85,168	-	-		-	-
16	Amortization of Defaulted REPs	1,671,751	-		4,577	-	-		-	-
17	Amortization of AMS Related Expenses	132,830	-		364	-	-		-	-
18	Amortization of WDSS Reg Asset	15,053,414	-		41,214	-	-		-	-
19	Amortization of NTU Study Cost/Transition to Completion	520,569	-		1,425	-	-		-	-
20	Amortization of Capital Structure Refund	16,329	-		45	-	-		-	-
21	Amortization of Docket 48325 Tax Refund	473,661	-		1,297	-	-		-	-
22	Amortization of HB 2483 Mobile Gen & Relocation Costs	5,218	-		14	-	-		-	-
23	Amortization of Power Line Safety Act PURA 36066	1,502,680	-		4,114	-	-		-	-
24	Amortization of COVID19 incremental Expense	6,923,725	-		18,956	•	-		-	-
25	Amonization of Sharyland Residential Interim Rates	125,473	-		344	-	-		-	•
26	Amortization of Non-Standard Metering Service	-	-		-	•	-		-	-
27	Amortization of Insurance Reserve	117,709,131	-		322,270	-	-		-	-
28	HB 2483 Mobile generator capital leases	449,450	-		1,231	-	-		-	-
29	Other Third-Party O&M									
30	Pension & Supplemental Retirement Benefits	22,359,776	-		61,218	52.90		Pages 9-10		(37,343)
31	Other Post-Employment Benefits	8,796,773	-		24,084	52 90	10.71	Page 11	63 61	1,531,999
32	Other O&M	620,668,333	45,890,378	Page 2	1,573,656	52 90	(46 93)	Page 12	5 97	9,394,728
33	Total O&M	\$ 2,794,288,343	-							
34	w 1, 11, w									
	Federal income Taxes	A 05 404 800			264 250	52 90	/26.261	Dece 12	16.65	\$ 4,349,960
36 37	Current	\$ 95,424,803 70,675,961	-		261,259 193,500	52 90	(30.25)	Page 13	10.05	\$ 4,349,900
38	Deferred FIT & ITC Total FIT	\$ 166,100,764			193,300	-	-			
30 39	lotar FT	\$ 100,100,704	-							
	Taxes Other Than Income Taxes									
41	Payroll Taxes	\$ 17,840,666			48,845	52 90	(11 66)	Page 14	41.24	\$ 2,014,371
42	State Gross Margin Taxes	27,740,679	_		75,950	52 90		Page 15	100 07	7,600,300
43	Local Franchise Taxes	283,082,877	204,512,084	Page 3	215,115	52 90		Page 16	(2 09)	(449,591)
44	Ad Valorem Taxes	283,681,884		U -	776,679	52.90		Page 17	(157.00)	(121,938,551)
45	Total Taxes Other Than Income Taxes	\$ 612,346,105						-		
46										
47	Depreciation Expense	\$ 924,809,855	-		2,531,991	-	0		-	\$ -
48										
	Return	\$ 1,326,522,951	-		3,631,822	-	0			\$
50										
	Subtotal	\$ 5,824,068,018	-							\$ (73,596,970)
52										
	Average Daily Bank Balances							Page 18		\$ 8,420,858
	Working Funds and Other							Page 19		(8,308,312)
55	Total Cash Working Capital Requirement									\$ (73,484,424)
56										

Exhibit AT-3 Page 2 of 19

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2022 RATE CASE ONCOR ELECTRIC DELIVERY COMPANY LLC PREPAID O&M AMORTIZATION FOR THE TEST-YEAR ENDING DECEMBER 31, 2021

Line No.	Description	FERC iption Account No.		Twelve-Month Amortization			
	(a)	(b)		(C)			
4	1						
1	Insurance						
2	Transmission	9240000	\$	2,139,391			
3		9250000		5,135,247			
4	Distribution	9240000		1,981,530			
5		9250000		7,360,669			
7	Total		\$	16,616,836			
8				, ,			
9	Membership Dues						
10	Transmission	9302000	\$	-			
11	Distribution	9302000		1,341,024			
12	Total		\$	1,341,024			
13							
14	Current Software Services & Maintenance						
	Transmission	9230000		2,924,395			
15	Distribution	9230000	\$	26,116,872			
16	Total		\$	29,041,267			
17				, · · , — - ·			
18	Total		\$	46,999,127			

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2022 RATE CASE ONCOR ELECTRIC DELIVERY COMPANY LLC PREPAID TAX AMORTIZATION FOR THE TEST-YEAR ENDING DECEMBER 31, 2021

Line No.	Description	FERC Account No.	-	welve-Month Amortization
	(a)	(b)		(c)
1	Local Gross Receipt Tax Amortization			
2	Distribution	4082410	\$	204,512,084
3	Transmission	4082410		-
4	Corporate	4082500		-
5	Total		\$	204,512,084

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See Supporting Workpapers

Exhibit AT-3 Page 4 of 19

2022 RATE CASE ONCOR ELECTRIC DELIVERY COMPANY LLC OVERALL REVENUE LAG FOR THE LEAD-LAG STUDY-PERIOD ENDING SEPTEMBER 30, 2021

Line No.	Revenue Type	Revenues	Revenue Lag Days	Weighted Dollar Days
	(a)	(b)	(c)	(d)
1	CC&B	\$ 3,755,449,473	52.74	\$ 198,055,498,654
2				
3	FIM	550,229,352	54.04	29,734,761,199
4				
5	Total	\$ 4,305,678,826	52.90	\$ 227,790,259,853

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Exhibit AT-3 Page 5 of 19

2022 RATE CASE ONCOR ELECTRIC DELIVERY COMPANY LLC LABOR - PAYROLL FOR THE LEAD-LAG STUDY-PERIOD ENDING SEPTEMBER 30, 2021

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No.	Payroll Type	Pa	yroll Expense	Percent	(Lead)/Lag	Check Float	Total (Lead)/Lag	Weig	ghted Dollar Days
	(a)		(b)	(c)	(d)	(e)	(f)		(g)
1	<u>Bi-Weekly</u>								
2	Direct Deposit	\$	46,520,803	99.77%	(11.96)	0.00	(11.96)	\$	(556,388,804)
3	Manual		107,245	0.23%	(11.96)	(7.27)	(19.23)		(2,062,312)
4			-						
5	Total Bi-Weekly Pay	\$	46,628,048	17.13%		_	(11.98)	\$	(558,451,116)
6									
7	Semi-Monthly								
8	1st Pay Period:								
9									
10	Direct Deposit	\$	111,761,930	99.77%	(12.08)	0.00	(12.08)	\$	(1,350,084,117)
11	Manuai	• • ••••••	257,645	0.23%	(12.08)	(7.27)	(19.35)		(4,985,431)
12	Total 4at Day Davied	¢	440 040 EZE I	40.000/			(10.10)	¢	(1 255 000 549)
13	Total 1st Pay Period	\$	112,019,575	49.66%		_	(12.10)	\$	(1,355,069,548)
14	Or d Devi Devie du								
15	2nd Pay Period:								
16 17	Direct Deposit	\$	113,292,299	99.77%	(12.17)	0.00	(12.17)	\$	(1,378,767,279)
18	Manual	φ	261,173	0.23%	(12.17)	(7.27)	(12.17)	Ψ	(1,378,767,279) (5,077,203)
10	Mariuai		201,175	0.2370	(12.17)	(1.27) _	(10.44)		(0,011,200)
20	Total 2nd Pay Period	\$	113,553,472	50.34%			(12.19)	\$	(1,383,844,482)
20	Total Zhu Tay Tenou	Ψ	110,000,472	00.0470		-	(12.10)	Ψ	(1,000,011,102)
22	Total Semi-Monthly		225,573,048	82.87%			(12.14)	\$	(2,738,914,030)
22	rotar ochi-montilly		220,070,040	52.07 /0		-		Ψ	(2,700,011,000)
24	Total	\$	272,201,095	100.00%	(12.10)		(12.11)	\$	(3,297,365,146)

See Supporting Workpapers

Exhibit AT-3 Page 6 of 19

2022 RATE CASE ONCOR ELECTRIC DELIVERY COMPANY LLC LABOR - INCENTIVE COMPENSATION FOR THE LEAD-LAG STUDY-PERIOD ENDING SEPTEMBER 30, 2021

Line No.		Payr	oll Expense	Percent	(Lead)/Lag	Check Float	Total (Lead)/Lag	Weighted Dollar Days
	(a)		(b)	(c)	(d)	(e)	(f)	(g)
1	Test Year Incentive	\$	24,995,198					
2	Adjustment Needed		2,583,392					
3	Adjusted Incentive	\$	27,578,590					
4								
5	Direct Deposit	\$	27,515,160	99.77%	(249.33)	0.00	(249.33)	\$ (6,860,354,719)
5 <u>5</u> 6	Manual		63,431	0.23%	(249.33)	(7.27)	(256.60)	(16,276,332)
7	Total Adjusted Incentive	\$	27,578,590				(249.35)	\$ (6,876,631,051)

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Exhibit AT-3 Page 7 of 19

2022 RATE CASE ONCOR ELECTRIC DELIVERY COMPANY LLC NON-LABOR O&M - AFFILIATE FOR THE LEAD-LAG STUDY-PERIOD ENDING SEPTEMBER 30, 2021

Line No.	Month	From	То	Total Dave	Mid-Point	Date Paid	Date Due	Later of Paid or Due Date	Days Paid After EOM	(Lead)/Lag
110.										Days
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
1	Oct-20	1-Oct-20	31-Oct-20	31.0	15.50	30-Nov-20	30-Nov-20	30-Nov-20	30	(45.50)
2	Nov-20	1-Nov-20	30-Nov-20	30.0	15.00	31-Dec-20	31-Dec-20	31-Dec-20	31	(46.00)
3	Dec-20	1-Dec-20	31-Dec-20	31.0	15.50	31-Jan-21	31-Jan-21	31-Jan-21	31	(46.50)
4	Jan-21	1-Jan-21	31-Jan-21	31.0	15.50	26-Feb-21	26-Feb-21	26-Feb-21	26	(41.50)
5	Feb-21	1-Feb-21	28-Feb-21	28.0	14.00	31-Mar-21	31-Mar-21	31 -Ma r-21	31	(45.00)
6	Mar-21	1-Mar-21	31-Mar-21	31.0	15.50	30-Apr-21	30-Apr-21	30-Apr-21	30	(45.50)
7	Apr-21	1-Apr-21	30-Apr-21	30.0	15.00	28-May-21	28-May-21	28 -Ma y-21	28	(43.00)
8	May-21	1-May-21	31-May-21	31.0	15.50	30-Jun-21	30-Jun-21	30-Jun-21	30	(45.50)
9	Jun-21	1-Jun-21	30-Jun-21	30.0	15.00	30-Jul-21	30-Jul-21	30-Jul-21	30	(45.00)
10	Jul-21	1-Jul-21	31-Jul-21	31.0	15.50	31-Aug-21	31-Aug-21	31-Aug-21	31	(46.50)
11	Aug-21	1-Aug-21	31-Aug-21	31.0	15.50	30-Sep-21	30-Sep-21	30-Sep-21	30	(45.50)
12	Sep-21	1-Sep-21	30-Sep-21	30.0	15.00	29-Oct-21	29-Oct-21	29-Oct-21	29	(44.00)
13	•									· · ·
14						Average				(44.96)
14						Average				

See Supporting Workpapers

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2022 RATE CASE ONCOR ELECTRIC DELIVERY COMPANY LLC TCOS - NON-ONCOR FOR THE LEAD-LAG STUDY-PERIOD ENDING SEPTEMBER 30, 2021

Line No.	Description	(Lead)/Lag Days
	(a)	(b)
1	Average service period	
2	(365.25 days/12 months)/2	(15.22)
3		
4	Days from end of Service Period to Payment	(35.00)
5		
6		
7	Total Lead Days	(50.22)

See Supporting Workpapers

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(15.65)

2022 RATE CASE ONCOR ELECTRIC DELIVERY COMPANY LLC **O&M EXPENDITURES - PENSION & SUPPLEMENTAL RETIREMENT BENEFITS** FOR THE LEAD-LAG STUDY-PERIOD ENDING SEPTEMBER 30, 2021

			Benefit Period Dates								
			Paym	nent_	-			Benefit Period	Payment_	<u>We</u>	ighted Dollar
<u>Line No.</u>	Payment Date	Payment Type	<u>Amo</u>	unt	<u>% of Total</u>	Beginning	Ending	Mid-Point	<u>(Lead)/Lag</u>		Days
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h) = (g) - (a)	(i) = (c) * (h)
1	Suplemental Re	<u>tirement Plan</u>									
2	10/31/2020	Supplemental Retirement Plan	3	70,125	8.24%	1/1/2020	12/31/2020	7/1/2020	(121.50)	\$	(44,970,140)
3	11/30/2020	Supplemental Retirement Plan	3	72,578	8.30%	1/1/2020	12/31/2020	7/1/2020	(151.50)	\$	(56,445,626)
4	12/31/2020	Supplemental Retirement Plan	4	13,825	9.21%	1/1/2020	12/31/2020	7/1/2020	(182.50)	\$	(75,523,086)
5	1/31/2021	Supplemental Retirement Plan	3	73,044	8.31%	1/1/2021	12/31/2021	7/2/2021	152.00	\$	56,702,647
6	2/28/2021	Supplemental Retirement Plan	3	72,252	8.29%	1/1/2021	12/31/2021	7/2/2021	124.00	\$	46,159,267
7	3/31/2021	Supplemental Retirement Plan	3	70,322	8.25%	1/1/2021	12/31/2021	7/2/2021	93.00	\$	34,439,900
8	4/30/2021	Supplemental Retirement Plan	3	67,750	8.19%	1/1/2021	12/31/2021	7/2/2021	63.00	\$	23,168,259
9	5/31/2021	Supplemental Retirement Plan	3	67,750	8.19%	1/1/2021	12/31/2021	7/2/2021	32.00	\$	11,768,005
10	6/30/2021	Supplemental Retirement Plan	3	68,582	8.21%	1/1/2021	12/31/2021	7/2/2021	2.00	\$	737,165
11	7/31/2021	Supplemental Retirement Plan	3	75,661	8.36%	1/1/2021	12/31/2021	7/2/2021	(29.00)	\$	(10,894,160)
12	8/31/2021	Supplemental Retirement Plan	3	69,660	8.23%	1/1/2021	12/31/2021	7/2/2021	(60.00)	\$	(22,179,595)
13	9/30/2021	Supplemental Retirement Plan	3	69,660	8.23%	1/1/2021	12/31/2021	7/2/2021	(90.00)	\$	(33,269,392)
14											
15	Suppl. Payments	and Weighted Dollar Days	\$ 4,4	91,209	100.00%					\$	(70,306,756)

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Suppl. Payments and Weighted Dollar Days \$ 4,491,209 100.00%

Weighted Average Payment Lead = Column (i), Line 15 divided by Column (c), Line 15 16

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2022 RATE CASE ONCOR ELECTRIC DELIVERY COMPANY LLC O&M EXPENDITURES - PENSION & SUPPLEMENTAL RETIREMENT BENEFITS FOR THE LEAD-LAG STUDY-PERIOD ENDING SEPTEMBER 30, 2021

					Benefit Pe				
			Payment	-			Benefit Period	Payment_	Weighted Dollar
Line No.	Payment Date	Payment Type	<u>Amount</u>	<u>% of Total</u>	Beginning	Ending	Mid-Point	<u>(Lead)/Lag</u>	Days
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h) = (g) - (a)	(I) = (C) * (h)
18	Retirement Plan	(Pro Forma 2021)							
19	4/15/2021	Retirement Plan	\$ 7,400,000	25.00%	1/1/2021	12/31/2021	7/2/2021	78.00	\$ 577,200,000
20	7/15/2021	Retirement Plan	7,400,000	25.00%	1/1/2021	12/31/2021	7/2/2021	(13.00)	\$ (96,200,000)
21	10/15/2021	Retirement Plan	7,400,000	25.00%	1/1/2021	12/31/2021	7/2/2021	(105.00)	\$ (777,000,000)
22	1/15/2022	Retirement Plan	7,400,000	25.00%	1/1/2021	12/31/2021	7/2/2021	(197.00)	\$ (1,457,800,000)
23					· · · ·				
24	Retirement Paymer	nts and Weighted Dollar Days	<u>\$ 29,600,000</u>	<u>100.00%</u>					<u>\$ (1.753,800,000)</u>
25	Weighted Average	Payment Lead = Column (i), Li	ine 24 divided by	Column (c), L	ine 24			(59.25)	
26									
27									
28	Total Payments and	d Weighted Dollar Days	\$ 34,091,209	_					\$ (1,824,106,756)
29	Weighted Average	Payment Lead = Column (i), L	ine 28 divided by	Column (c), L	ine 28			(53.51)	

See Supporting Workpapers

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2022 RATE CASE ONCOR ELECTRIC DELIVERY COMPANY LLC O&M EXPENDITURES - OTHER POST-EMPLOYMENT BENEFITS FOR THE LEAD-LAG STUDY-PERIOD ENDING SEPTEMBER 30, 2021

					Benefit Per	riod Dates			
			Payment				Benefit Period	Payment	<u>Weighted</u>
<u>Line No.</u>	Payment Date	Payment Type	Amount	<u>% of Total</u>	Beginning	Ending	Mid-Point	(Lead)/Lag	Dollar Days
	(a)	(b)	(C)	(d)	(e)	(f)	(g)	(h) = (g) - (a)	(i) = (c) * (h)
1	10/2/2020	OPEB-FAS 106	2,847,053	8.34%	10/1/2020	10/31/2020	10/16/2020	14.00	39,858,742
2	11/6/2020	OPEB-FAS 106	2,847,053	8.34%	11/1/2020	11/30/2020	11/15/2020	9.50	27,047,004
3	12/4/2020	OPEB-FAS 106	2,847,053	8.34%	12/1/2020	12/31/2020	12/16/2020	12.00	34,164,636
4	1/7/2021	OPEB-FAS 106	2,847,053	8.34%	1/1/2021	1/31/2021	1/16/2021	9.00	25,623,477
5	2/4/2021	OPEB-FAS 106	2,847,053	8.34%	2/1/2021	2/28/2021	2/14/2021	10.50	29,894,057
6	3/5/2021	OPEB-FAS 106	2,847,053	8.34%	3/1/2021	3/31/2021	3/16/2021	11.00	31,317,583
7	4/7/2021	OPEB-FAS 106	2,839,932	8.32%	4/1/2021	4/30/2021	4/15/2021	8.50	24,139,422
8	5/6/2021	OPEB-FAS 106	2,839,932	8.32%	5/1/2021	5/31/2021	5/16/2021	10.00	28,399,320
9	6/4/2021	OPEB-FAS 106	2,839,932	8.32%	6/1/2021	6/30/2021	6/15/2021	11.50	32,659,218
10	7/6/2021	OPEB-FAS 106	2,839,932	8.32%	7/1/2021	7/31/2021	7/16/2021	10.00	28,399,320
11	8/6/2021	OPEB-FAS 106	2,839,932	8.32%	8/1/2021	8/31/2021	8/16/2021	10.00	28,399,320
12	9/3/2021	OPEB-FAS 106	2,839,932	<u>8.32%</u>	9/1/2021	9/30/2021	9/15/2021	12.50	35,499,150
13	Total Payments ar	nd Weighted Dollar Days	\$ <u>\$ 34,121,910</u>	<u>100.000%</u>					<u>\$ 365,401,248</u>
		Dermanet Leerder Oelen	ana (i) tina 10 div	ided by Calum	n (a) Lina 12			10 71	

14 Weighted Average Payment Lead = Column (i), Line 13 divided by Column (c), Line 13

See Supporting Workpapers

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2022 RATE CASE ONCOR ELECTRIC DELIVERY COMPANY LLC NON-LABOR O&M - OTHER THIRD PARTY O&M FOR THE LEAD-LAG STUDY-PERIOD ENDING SEPTEMBER 30, 2021

Line				Weighted	
No.	Business Unit	Amount Days			Dollar Days
	(a)	 (b)	(c)	(d)	(e)
1	Transmission	\$ 86,691,097	(29.73)		\$ (2,577,351,457)
2	Distribution	470,408,160	(50.54)		(23,774,849,117)
3	Corporate *	1,423,446	97.77		139,170,324
4				-	
5	Total	\$ 558,522,702	(46.93)	-	\$ (26,213,030,250)

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2022 RATE CASE ONCOR ELECTRIC DELIVERY COMPANY LLC FEDERAL INCOME TAX FOR THE LEAD-LAG STUDY-PERIOD ENDING SEPTEMBER 30, 2021

Line No.	Statutory Payment Due Date	Mid-Year	(Lead)/Lag Days	Statutory % of Total Taxes for Year	Weighted Days
	(a)	(b)	(c)	(d)	(e)
1 2	Tuesday, December 15, 2020	1-Jul-20	(166.50)	25.00%	(41.63)
3	Thursday, April 15, 2021	2-Jul-21	78.50	25.00%	19.63
4				25 22 2(
5	Tuesday, June 15, 2021	2-Jul-21	17.50	25.00%	4.38
6 7 8	Wednesday, September 15, 2021	2 - Jul-21	(74.50)	25.00% _	(18.63)
9	Total			=	(36.25)

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2022 RATE CASE ONCOR ELECTRIC DELIVERY COMPANY LLC PAYROLL TAXES FOR THE LEAD-LAG STUDY-PERIOD ENDING SEPTEMBER 30, 2021

Description		Amount	(Lead)/Lag	Weighted Dollar Dave
	- n			Days
(a)		(a)	(C)	(d)
FICA	\$	34,752,384	(12.10) \$	(420,503,847)
Federal & State Unemployment		646,618	12.26 \$	7,926,163
Total Payroll Related Taxes	\$	35,399,002	(11.66) \$	(412,577,685)
	Federal & State Unemployment	(a) FICA \$ Federal & State Unemployment	(a) (b) FICA \$ 34,752,384 Federal & State Unemployment 646,618	Description Amount Days (a) (b) (c) FICA \$ 34,752,384 (12.10) \$ Federal & State Unemployment 646,618 12.26 \$

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See Supporting Workpapers

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2022 RATE CASE ONCOR ELECTRIC DELIVERY COMPANY LLC STATE GROSS MARGIN TAX FOR THE LEAD-LAG STUDY-PERIOD ENDING SEPTEMBER 30, 2021

Line	Month/				
No.	Year	Accrual Date	Mid Month	Due Date	(Lead)/Lag Days
	(a)	(b)	(c)	(d)	(e)
1	Oct-20	31-Oct-20	15-Oct-20	Friday, May 15, 2020	153.00
			15-Nov-20		184.00
2	Nov-20	30-Nov-20		Friday, May 15, 2020	
3	Dec-20	31-Dec-20	15-Dec-20	Friday, May 15, 2020	214.00
4	Jan-21	31-Jan-21	15-Jan-21	Friday, May 14, 2021	(119.00)
5	Feb-21	28-Feb-21	14-Feb-21	Friday, May 14, 2021	(89.00)
6	Mar-21	31 -Ma r-21	15-Mar-21	Friday, May 14, 2021	(60.00)
7	Apr-21	30-Apr-21	15-Apr-21	Friday, May 14, 2021	(29.00)
8	May-21	31-May-21	15-May-21	Friday, May 14, 2021	1.00
9	Jun-21	30-Jun-21	15-Jun-21	Friday, May 14, 2021	32.00
10	Jul-21	31-Jul-21	15-Jul-21	Friday, May 14, 2021	62.00
11	Aug-21	31-Aug-21	15-Aug-21	Friday, May 14, 2021	93.00
12	Sep-21	30-Sep-21	15-Sep-21	Friday, May 14, 2021	124.00
13	•				
14	Average			-	47.17

See Supporting Workpapers

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2022 RATE CASE ONCOR ELECTRIC DELIVERY COMPANY LLC LOCAL GROSS RECEIPTS TAXES FOR THE LEAD-LAG STUDY-PERIOD ENDING SEPTEMBER 30, 2021

Line	Cit.		Total	Amort of	Accrued	<i></i>	Weighted
No.	City		Amount	Prepaid	 Portion	(Lead)/Lag	Dollar Days
	(a)		(b)	(C)	(d)	(e)	(f)
1	DALLAS	\$	49,842,175	\$ (33,345,380)	\$ 16,496,795	(16 77) \$	(276,647,209)
2	FORT WORTH	\$	30,496,677	\$ (20,379,839)	10,116,838	(17.85)	(180,613,805)
3	ARLINGTON	\$	13,798,194	\$ (13,778,618)	19,576	(299.21)	(5,857,275)
4	PLANO	\$	11,202,563	\$ (11,190,843)	11,719	(300.79)	(3,525,007)
5	IRVING	\$	9,184,992	\$ (9,168,600)	16,393	(302.28)	(4,955,270)
6	RICHARDSON	\$	7,802,379	\$ -	7,802,379	(91.24)	(711,867,343)
7	GRAND PRAIRIE	\$	6,593,808	\$ (6,583,803)	10,005	(297.58)	(2,977,377)
8	WACO	\$	5,754,791	\$ -	5,754,791	(91.48)	(526,466,394)
9	CARROLLTON	\$	5,370,537	\$ -	5,370,537	(47 09)	(252,924,670)
10	MIDLAND	\$	4,961,843	\$ (4,949,984)	11,858	(301 05)	(3,569,932)
11	TYLER	\$	4,463,369	\$ · · ·	4,463,369	(77.48)	(345,809,922)
12	KILLEEN	\$	4,096,476	\$ -	4,096,476	(46.40)	(190,079,247)
13	ODESSA	\$	3,987,404	\$ (3,977,198)	10,205	(380.37)	(3,881,785)
14	MESQUITE	\$	3,843,654	\$ -	3,843,654	(55 95)	(215,040,562)
15	ROUND ROCK	\$	3,566,327	\$ -	3,566,327	(188.75)	(673,130,251)
16	TEMPLE	\$	3,412,790	\$ (3,401,246)	11,544	(294.74)	(3,402,325)
17	WICHITA FALLS	\$	3,369,113	\$ (3,362,444)	6,669	(291.04)	(1,940,813)
18	MCKINNEY	\$	3,225,637	\$ (3,214,688)	10,948	(301 53)	(3,301,220)
19	GRAPEVINE	\$	3,215,558	\$ (3,210,858)	4,700	(304.45)	(1,430,898)
20	ALLEN	\$	2,578,382	\$ (2,567,015)	11,368	(290,79)	(3,305,558)
21	MIDLOTHIAN	\$	2,388,925	\$ -	2,388,925	(46 99)	(112,257,075)
22	MANSFIELD	\$	2,356,565	\$ (2,009,940)	346,624	(48 03)	(16,648,273)
23	NORTH RICHLAND HILLS	\$	2,198,562	\$ (1,867,389)	331,173	(48.44)	(16,040,473)
24	COPPELL	\$	2,190,620	\$ (2,188,877)	1,743	(291 43)	(507,869)
25	FARMERS BRANCH	\$	2,125,371	\$ (2,119,371)	6,000	(326.23)	(1,957,504)
26		- -	21.20,071	 	 		(,,,,-•,)
27		\$	192,026,711	(\$127,316,094)	\$ 64,710,616	(54.99) \$	(3,558,138,057)
28							

29 * Twenty five largest tax payments were used. Top Twenty five = 69% of payments for local gross receipts

30

31 Discretionary Charges are all paid from account 236.2415 and were paid by check.

32 Local Gross Receipt Taxes are either prepaid from account 165,9000 or in arrears from Account 236,2410

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2022 RATE CASE ONCOR ELECTRIC DELIVERY COMPANY LLC AD VALOREM TAXES FOR THE LEAD-LAG STUDY-PERIOD ENDING SEPTEMBER 30, 2021

	Line No.	County	Collector	Payment	Mid-Year	Check Cleared	Lag/Lead	Weighted Dollar Days
_		(a)	(b)	(c)	(d)	(e)	(f)	(g)
	1	Dallas	DALLAS COUNTY TAX OFFICE	\$ 44,557,245	1-Jul-20	1-Feb-21	(214.50) \$	6 (9,557,528,958)
	2	Tarrant	TARRANT COUNTY	\$ 34,609,267	1-Jul-20	1-Feb-21	(214.50)	(7,423,687,735)
	3	Collin	COLLIN COUNTY	\$ 12,893,924	1-Jul-20	1-Feb-21	(214.50)	(2,765,746,640)
	4	Bell	BELL COUNTY TAX APPRAISAL DIST	\$ 7,116,025	1-Jul-20	13-Nov-20	(134.50)	(957,105,356)
	5	Denton	MICHELLE FRENCH, TAX A/C	\$ 6,397,614	1-Jul-20	1-Feb-21	(214.50)	(1,372,288,274)
	6	Midland	MIDLAND CAD	\$ 5,786,472	1-Jul-20	1-Feb-21	(214.50)	(1,241,198,223)
	7	Ector	ECTOR CAD	\$ 5,368,566	1-Jul-20	1-Feb-21	(214.50)	(1,151,557,323)
ກ ພ	8	Mclennan	MCLENNAN COUNTY	\$ 4,719,087	1-Jul-20	1-Feb-21	(214.50)	(1,012,244,209)
	9	Williamson	WILLIAMSON COUNTY	\$ 4,649,556	1-Jul-20	1-Feb-21	(214.50)	(997,329,700)
	10	Smith	SMITH COUNTY TAX OFFICE	\$ 4,364,342	1-Jul-20	1-Feb-21	(214.50)	(936,151,458)
	11	Ellis	ELLIS COUNTY	\$ 3,762,111	1-Jul-20	1-Feb-21	(214.50)	(806,972,904)
	12	Grayson	GRAYSON COUNTY	\$ 3,008,732	1-Jul-20	1-Feb-21	(214.50)	(645,373,106)
	13	Wichita	WICHITA COUNTY	\$ 2,924,334	1-Jul-20	1-Feb-21	(214.50)	(627,269,570)
	14	Parker	PARKER CAD	\$ 2,603,342	1-Jul-20	1-Feb-21	(214.50)	(558,416,906)
	15	Andrews	ANDREWS ISD TAX OFFICE	\$ 2,534,114	1-Jul-20	1-Feb-21	(214.50)	(543,567,402)
	16	Johnson	JOHNSON COUNTY	\$ 2,509,601	1-Jul-20	1-Feb-21	(214.50)	(538,309,442)
	17	Kaufman	KAUFMAN COUNTY	\$ 2,442,830	1-Jul-20	1 - Feb-21	(214.50)	(523,986,947)
	18	Rockwall	ROCKWALL CAD	\$ 2,326,097	1-Jul-20	1-Feb-21	(214.50)	(498,947,768)
	19	Navarro	NAVARRO COUNTY	\$ 2,299,372	1-Jul-20	5-Nov-20	(126.50)	(290,870,520)
	20	Scurry	SCURRY COUNTY	\$ 2,252,455	1-Jul-20	1-Feb-21	(214.50)	(483,151,495)
	21	Tarrant	GRAPEVINE AREA TAX OFFICE	\$ 2,196,918	1-Jul-20	1-Feb-21	(214.50)	(471,238,883)
	22	Nolan	NOLAN CAD	\$ 2,096,137	1-Jul-20	1-Feb-21	(214.50)	(449,621,487)
	23	Wise	WISE COUNTY TAX OFFICE	\$ 2,084,842	1-Jul-20	1-Feb-21	(214.50)	(447,198,645)
	24	Angelina	ANGELINA COUNTY TAX OFFICE	\$ 2,073,522	1-Jul-20	1-Feb-21	(214.50)	(444,770,418)
	25	Brown	BROWN CAD	\$ 2,053,361	1-Jul-20	1-Feb-21	(214.50)	(440,445,930)
	26							
	27	Total		\$ 167,629,865			(209.90)	\$ (35,184,979,298)
	28		=					

29 Note: Top 25 taxing jurisdictions used (represents approximately 68% of total ad valorem taxes)

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2022 RATE CASE ONCOR ELECTRIC DELIVERY COMPANY LLC AVERAGE DAILY BANK BALANCES FOR THE TEST-YEAR ENDING DECEMBER 31, 2021

				Depos	sitory Bank Accou	nts - A	djusted Balances				
			JPMorgan Chase Bank		BNY Mellon	JPM	organ Chase Bank	J	PMorgan Chase Bank		
•	Line No.	Month/Year	Miscellaneous Receipts Acct	Rep	Receipt Account	Cash	Concentration Acct		Payroll Account	Total	of Daily Balances
		(a)	(b)		(C)		(d)		(e)		(f)
	1	Jan-21	\$ 33,534,062	\$	147,159,017	\$	32,548,900	\$	1,005,902	\$	214,247,881
	2	Feb-21	\$ 15,467,719	\$	159,314,605	\$	17,540,639	\$	1,823,704	\$	194,146,666
	3	Mar-21	\$ 15,144,318	\$	150,422,885	\$	20,304,489	\$	20,308,637	\$	206,180,330
	4	Apr-21	\$ 21,115,024	\$	141,344,693	\$	77,786,259	\$	3,743,431	\$	243,989,407
_	5	May-21	\$ 17,542,557	\$	120,461,576	\$	10,583,653	\$	3,217,414	\$	151,805,199
64	6	Jun-21	\$ 26,779,331	\$	116,501,377	\$	10,774,557	\$	2,739,379	\$	156,794,644
	7	Jul-21	\$ 20,668,951	\$	136,167,655	\$	21,079,340	\$	3,268,225	\$	181,184,170
	8	Aug-21	\$ 36,098,289	\$	162,555,800	\$	3,977,595	\$	3,327,275	\$	205,958,958
	9	Sep-21		\$	182,500,891	\$	17,995,667	\$	10,136,287	\$	264,530,537
	10	Oct-21	\$ 39,201,225	\$	168,554,962	\$	12,689,525	\$	14,456,386	\$	234,902,098
	11	Nov-21	\$ 14,768,017	\$	178,260,883	\$	14,077,177	\$	12,958,005	\$	220,064,082
	12	Dec-21	\$ 27,068,781	\$	121,144,097	\$	640,346,896	\$	13,354,555	\$	801,914,328
	13									\$	3,075,718,300
	14										
	15	Avg Bank Bal -	Col (f) Ln 13 divided by	365.2	25					\$	8,420,858

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2022 RATE CASE ONCOR ELECTRIC DELIVERY COMPANY LLC WORKING FUNDS AND OTHER FOR THE TEST-YEAR ENDING DECEMBER 31, 2021

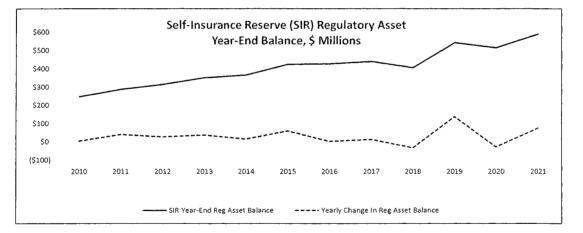
Line No.	Description	Amount
	(a)	(b)
1	Payroll Withholdings	\$ (895,405)
2	Misc. Working Funds	-
3	Misc. Deferred Debits & Credits	(8,278,904)
4	Home Purchase Plan	325,376
5	Other Accounts Receivables	540,621
6		
7	Misc. Funds	\$ (8,308,312)

Oncor Electric Delivery Company LLC Self-Insurance Reserve Regulatory Asset Balance Walk-Forward from Docket No. 46957 December 31, 2016 to December 31, 2021

Line	Period	Previously Reviewed Self-Insurance Reserve <u>Deficit / (Surplus)</u> (a)	Current Rate Provision to Recover Previously <u>Reviewed Losses</u> (b)	Previously Reviewed Self-Insurance Reserve <u>Deficit / (Surplus)</u> (c) = (a) + Σ(b)
1	Beginning Balance at December 31, 2016 (Docket No. 46957)	426,420,946		
2	12 Months Ended December 31, 2017		(32,565,367)	393,855,578
3	12 Months Ended December 31, 2018		(42,642,095)	351,213,484
4	12 Months Ended December 31, 2019		(42,642,095)	308,571,389
5	12 Months Ended December 31, 2020		(42,642,095)	265,929,295
6	12 Months Ended December 31, 2021		(42,642,095)	223,287,200
7	5 Years Ended December 31, 2021	426,420,946	(203,133,746)	
8	Ending Balance at December 31, 2021			223,287,200
Line	<u>Period</u>	Subsequent Losses Reflected In <u>Self-Insurance Reserve</u> (d)	Current Rate Provision for New Self-Insurance <u>Reserve Loss Incidents</u> (e)	Non-Reviewed Self-Insurance Reserve <u>Deficit / (Surplus)</u> (f) = $\Sigma(d) + \Sigma(e)$
9	Beginning Balance at December 31, 2016 (Docket No 46957)			
10	12 Months Ended December 31, 2017	82,220,211	(37,224,234)	44,995,977
11	12 Months Ended December 31, 2018	84,066,643	(75,000,000)	54,062,620
12	12 Months Ended December 31, 2019	254,571,241	(75,000,000)	233,633,860
13	12 Months Ended December 31, 2020	88,815,472	(75,000,000)	247,449,332
14	12 Months Ended December 31, 2021	192,809,125	(75,000,000)	365,258,457
15	5 Years Ended December 31, 2021	702,482,691	(337,224,234)	
1 6	Ending Balance at December 31, 2021	······································	······	365,258,457
Line	<u>Period</u>			End of Period Self-Insurance Reserve <u>Deficit / (Surplus)</u> (g) = (c) + (f)
17	Balance at December 31, 2016			426,420,946
18	Balance at December 31, 2017			438,851,555
19	Balance at December 31, 2018			405,276,104
20	Balance at December 31, 2019			542,205,250
21	Balance at December 31, 2020			513,378,627
22	Balance at December 31, 2021			588,545,657

Oncor Electric Delivery Company LLC History of Oncor's Self-Insurance Reserve (SIR) Regulatory Asset Balance At Year-End 2010 - 2021 \$ in Millions

	SIR Beginning			Total Annual SIR			
	Reg Asset Balance	SIR Reg Asset Approved	SIR Annual	Amount (Amortization +	Total Annual Losses Charged	Yearly Change In Reg Asset	SIR Year-End Reg Asset
Year	(Jan. 1)	Amortization	Accrual	Accrual)	to SIR	Balance	Balance
2010	\$243	\$20	\$33	\$54	\$58	\$4	\$247
2011	\$247	\$20	\$33	\$54	\$94	\$40	\$287
2012	\$287	\$32	\$33	\$65	\$92	\$27	\$314
2013	\$314	\$32	\$33	\$65	\$101	\$36	\$350
2014	\$350	\$32	\$33	\$65	\$80	\$15	\$365
2015	\$365	\$32	\$33	\$65	\$124	\$59	\$424
2016	\$424	\$32	\$33	\$65	\$67	\$2	\$426
2017	\$426	\$33	\$37	\$70	\$82	\$12	\$439
2018	\$439	\$43	\$75	\$118	\$84	(\$34)	\$405
2019	\$405	\$43	\$75	\$118	\$255	\$137	\$542
2020	\$542	\$43	\$75	\$118	\$89	(\$29)	\$513
2021	\$513	\$43	\$75	\$118	\$193	\$75	\$589



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2022 RATE CASE ONCOR ELECTRIC DELIVERY COMPANY LLC WORKPAPERS FOR THE DIRECT TESTIMONY OF ASHLEY THENMADATHIL

Mr. Thenmadathil has no supporting workpapers for his direct testimony.

INDEX TO THE DIRECT TESTIMONY OF KEVIN R. FEASE, WITNESS FOR ONCOR ELECTRIC DELIVERY COMPANY LLC

۱.	POSITION AND QU	JALIFICATIONS	2			
11.	PURPOSE OF DIRECT TESTIMONY					
111.	COST OF DEBT		5			
IV.	SUSTAINABLE FINANCING					
V.	CAPITAL STRUCTURE11					
VI.	COST OF CAPITAL		14			
VII.	PENSION AND OT	HER POSTRETIREMENT BENEFITS PLANS	16			
VIII.	INSURANCE OVER	RVIEW	20			
IX.	SUMMARY AND C	ONCLUSION	22			
AFFID	AVIT		23			
EXHIE	3IT		24			
	Exhibit KRF-1	Rate Filing Package Schedules Sponsored by K R. Fease	evin			

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1		DIRECT TESTIMONY OF KEVIN R. FEASE
2		I. POSITION AND QUALIFICATIONS
3	Q.	PLEASE STATE YOUR NAME, BUSINESS ADDRESS, AND CURRENT
4		EMPLOYMENT POSITION.
5	Α.	My name is Kevin R. Fease. My business address is 1616 Woodall
6		Rodgers Freeway, Dallas, Texas 75202. I am the Vice President and
7		Treasurer for Oncor Electric Delivery Company LLC (the "Company" or
8		"Oncor"). I also serve as Vice President and Treasurer of Oncor Electric
9		Delivery Holdings Company LLC ("Holdings").
10	Q.	PLEASE DESCRIBE YOUR EDUCATIONAL AND PROFESSIONAL
11		QUALIFICATIONS.
12	Α.	I graduated from Kenyon College in 1995 with a Bachelor of Arts degree in
13		History. In 1998, I received my Juris Doctor from the University of
14		Wisconsin-Madison. Following graduation, I was employed by two law firms
15		until joining American Electric Power Service Corporation in Columbus,
16		Ohio, in 2000 as a corporate finance attorney. In 2004, I joined the legal
17		department of TXU Business Services Company ("TXU") and moved to
18		Oncor in 2007. I have spent much of my career in legal departments
19		supporting a variety of business areas, including treasury and other financial
20		functions. In 2018, I was elected to my current position. I am also a member
21		of the State Bars of Texas, Ohio, and Wisconsin.
22	Q.	WHAT ARE THE PRIMARY RESPONSIBILITIES OF YOUR POSITION?
23	Α.	I provide the overall management of financing activities for Oncor to ensure
24		its appropriate capitalization and its access to adequate funds for
25		construction, operations, and other corporate purposes. I am responsible
26		for determining the Company's short-term and long-term financing
27		requirements, developing a financial strategy and financing plan to meet
28		those requirements, and negotiating and obtaining the funding for those
29		requirements. My responsibilities involve regular contact with various
30		segments of the financial community, including investment and commercial

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bankers, credit rating agencies, and investors. I am also responsible for the
 Company's cash management operations, trust investment management,
 financial compliance activities, and oversight of the insurable risk
 management functions. I also serve on the Oncor Thrift Plan Committee,
 as Chair of the Oncor Sustainable Finance Committee, and as an Oncor
 representative on the Vistra Energy Retirement Plan investment committee.

Q. HAVE YOU PREVIOUSLY TESTIFIED BEFORE THE PUBLIC UTILITY
8 COMMISSION OF TEXAS ("COMMISSION")?

9 A. No, I have not.

11.

10

PURPOSE OF DIRECT TESTIMONY

11 Q. WHAT IS THE PURPOSE OF YOUR DIRECT TESTIMONY?

12 The purpose of my direct testimony is to recommend a reasonable cost of Α. 13 debt and cost of capital for the Company. The cost of debt, taken together 14 with the capital structure and return on equity recommendations of Company witnesses Ms. Ellen Lapson and Mr. Dylan W. D'Ascendis, 15 16 determines the overall cost of capital for the Company. I also address the 17 Oncor Sustainable Bond Framework, the reasonableness of the recovery 18 of the pension and other postretirement benefits costs, and the Company's 19 insurance program. I am also sponsoring the rate filing package schedules 20 detailed in Exhibit KRF-1.

Q. WHY IS IT IMPORTANT FOR THE COMMISSION TO APPROVE
ONCOR'S REQUESTED CAPITAL STRUCTURE, COST OF DEBT, AND
RETURN ON EQUITY?

24 Α. Capital structure, return on equity, and cost of debt are all integral parts of 25 and contribute to the Company's creditworthiness, which ultimately 26 influences our ability to finance investments in our system in a timely and 27 cost-effective manner, and which in turn benefits ratepayers. Our 28 creditworthiness is tied to rating agency views, and they have stated that 29 Oncor has a higher percentage of debt in its capital structure than many in 30 the industry. In addition, any failure to recover our full cost of debt would be

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1 perceived by rating agencies and investors negatively, and effectively as a 2 reduction on our return on equity. Our requested capital structure, cost of 3 debt, and return on equity also help mitigate the impacts that unanticipated 4 costs could have on our financial plans. Given the rising interest rate 5 environment, inflation, trends we've seen in increased storm damage 6 restoration costs, and pension risks, additional expenses not anticipated as 7 part of our current long-term plan could arise, and failure to approve the 8 requested capital structure, cost of debt, and return on equity could make it 9 increasingly difficult to absorb any such unexpected expenses without 10 sacrificing planned investments on the system. A cost of debt approved by 11 the Commission that is less than our actual cost of debt also limits our ability 12 to finance using potentially beneficial, longer tenor instruments, which in 13 turn could pose more refinance and interest rate risk.

14 Q. WHY IS IT IMPORTANT FOR THE COMMISSION TO APPROVE
15 ONCOR'S RECOVERY OF PENSION AND OTHER POSTRETIREMENT
16 BENEFITS COSTS?

A. Oncor has made commitments to employees and retirees regarding our
provision of those benefits, which are relied upon by the recipients. Rating
agencies and investors expect the Company to recover those costs.
Anything less than full and accurate recovery of our actual costs with
respect to pension and other postretirement benefits could be perceived
negatively by rating agencies and investors and could impact our creditworthiness.

Q. WHY IS IT IMPORTANT FOR THE COMMISSION TO FIND THAT
ONCOR'S INSURANCE PROGRAM IS REASONABLE AND ITS
ASSOCIATED EXPENSES ARE REASONABLE AND NECESSARY?

A. Rating agencies and investors expect that we will maintain sufficient
 insurance, and that we will recover those insurance costs. Anything less
 than full and accurate recovery of our actual costs with respect to insurance
 could be perceived negatively by rating agencies and investors and will

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1		negatively affect our ability to realize our authorized return on equity and
2		could also impact our overall creditworthiness.
3	Q.	WAS YOUR TESTIMONY PREPARED BY YOU OR AT YOUR
4		DIRECTION?
5	Α.	My direct testimony, including my exhibit, was prepared by me or under my
6		direction, supervision, or control and is, to the best of my knowledge and
7		belief, true and correct. My direct testimony is organized consistent with the
8		topics set forth above.
9		III. COST OF DEBT
10	Q.	WHAT ARE ONCOR'S LONG-TERM CREDIT RATINGS ACCORDING TO
11		STANDARD & POOR'S GLOBAL RATINGS ("S&P"), MOODY'S
12		INVESTORS SERVICE ("MOODY'S"), AND FITCH RATINGS ("FITCH") AT
13		DECEMBER 31, 2021?
14	Α.	Oncor's issuer ratings at December 31, 2021, are as follows:
15		S&P (Issuer Credit Rating) A
15 16		Moody's (Implied Senior Unsecured Rating ¹) Baa1
16	Q.	Moody's (Implied Senior Unsecured Rating ¹) Baa1
16 17	Q.	Moody's (Implied Senior Unsecured Rating ¹) Baa1 Fitch (Issuer Debt Rating) BBB+
16 17 18	Q. A.	Moody's (Implied Senior Unsecured Rating ¹) Baa1 Fitch (Issuer Debt Rating) BBB+ ARE ALL THREE OF THESE RATINGS IN THE INVESTMENT GRADE
16 17 18 19		Moody's (Implied Senior Unsecured Rating ¹) Baa1 Fitch (Issuer Debt Rating) BBB+ ARE ALL THREE OF THESE RATINGS IN THE INVESTMENT GRADE CATEGORY?
16 17 18 19 20	A.	Moody's (Implied Senior Unsecured Rating ¹) Baa1 Fitch (Issuer Debt Rating) BBB+ ARE ALL THREE OF THESE RATINGS IN THE INVESTMENT GRADE CATEGORY? Yes, they are.
16 17 18 19 20 21	A.	Moody's (Implied Senior Unsecured Rating ¹) Baa1 Fitch (Issuer Debt Rating) BBB+ ARE ALL THREE OF THESE RATINGS IN THE INVESTMENT GRADE CATEGORY? Yes, they are. HAVE THE SAME THREE RATING AGENCIES ALSO PROVIDED
16 17 18 19 20 21 22	A.	Moody's (Implied Senior Unsecured Rating ¹) Baa1 Fitch (Issuer Debt Rating) BBB+ ARE ALL THREE OF THESE RATINGS IN THE INVESTMENT GRADE CATEGORY? Yes, they are. HAVE THE SAME THREE RATING AGENCIES ALSO PROVIDED RATINGS FOR ONCOR'S SENIOR SECURED DEBT AS OF DECEMBER
16 17 18 19 20 21 22 23	A. Q.	Moody's (Implied Senior Unsecured Rating ¹) Baa1 Fitch (Issuer Debt Rating) BBB+ ARE ALL THREE OF THESE RATINGS IN THE INVESTMENT GRADE CATEGORY? Yes, they are. HAVE THE SAME THREE RATING AGENCIES ALSO PROVIDED RATINGS FOR ONCOR'S SENIOR SECURED DEBT AS OF DECEMBER 31, 2021?
 16 17 18 19 20 21 22 23 24 	A. Q.	Moody's (Implied Senior Unsecured Rating ¹) Baa1 Fitch (Issuer Debt Rating) BBB+ ARE ALL THREE OF THESE RATINGS IN THE INVESTMENT GRADE CATEGORY? Yes, they are. HAVE THE SAME THREE RATING AGENCIES ALSO PROVIDED RATINGS FOR ONCOR'S SENIOR SECURED DEBT AS OF DECEMBER 31, 2021? Yes. Oncor's senior secured debt was rated at December 31, 2021, as
 16 17 18 19 20 21 22 23 24 25 	A. Q.	Moody's (Implied Senior Unsecured Rating ¹) Baa1 Fitch (Issuer Debt Rating) BBB+ ARE ALL THREE OF THESE RATINGS IN THE INVESTMENT GRADE CATEGORY? Yes, they are. HAVE THE SAME THREE RATING AGENCIES ALSO PROVIDED RATINGS FOR ONCOR'S SENIOR SECURED DEBT AS OF DECEMBER 31, 2021? Yes. Oncor's senior secured debt was rated at December 31, 2021, as follows:
 16 17 18 19 20 21 22 23 24 25 26 	A. Q.	Moody's (Implied Senior Unsecured Rating ¹) Baa1 Fitch (Issuer Debt Rating) BBB+ ARE ALL THREE OF THESE RATINGS IN THE INVESTMENT GRADE CATEGORY? Yes, they are. HAVE THE SAME THREE RATING AGENCIES ALSO PROVIDED RATINGS FOR ONCOR'S SENIOR SECURED DEBT AS OF DECEMBER 31, 2021? Yes. Oncor's senior secured debt was rated at December 31, 2021, as follows: <u>S&P</u> A+

¹ The implied unsecured rating is cited by Moody's when it compares Oncor's credit to the agency's formal unsecured ratings of industrial peers.

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At each credit rating agency, Oncor's senior secured debt ratings are either
 one or two notches higher than Oncor's issuer rating by that agency, to
 reflect the greater assurance that secured lenders have due to the pledge
 of good collateral.

5 Q. HAS ONCOR RECEIVED ANY UPGRADES TO ITS SECURED DEBT
6 RATINGS SINCE ITS LAST BASE-RATE CASE, DOCKET NO. 46957?

A. Yes. In March 2018, as a result of the close of Sempra's acquisition of an approximate 80.03% indirect interest in the Company, the rating agencies took ratings actions on Oncor.² S&P upgraded the Company's senior secured debt rating to A+ from A. Moody's upgraded Oncor's senior secured debt rating to A2 from A3. Fitch upgraded the Company's senior secured debt rating to A from BBB+.

13 Q. HOW DOES A COMPANY'S DEBT RATING AFFECT COST OF DEBT?

A. Ratings issued by the ratings agencies are designed to reflect an opinion of
the default risk of a bond. Therefore, all else being equal, a higher rating
(lower default risk) will decrease a bond's credit spread over the benchmark
interest rate to reflect the lower risk. A lower credit spread will cause a lower
cost of debt for bonds with the same maturity.

19 Q. WHAT STEPS DID ONCOR TAKE DURING 2017 THROUGH 2021 TO20 REDUCE ITS COST OF DEBT?

21 Α. Oncor continuously seeks to meet its debt issuance needs on the most 22 attractive terms possible and at the lowest cost. Since December 31, 2016, 23 the Company has taken advantage of market conditions both to issue new 24 debt and refinance existing debt at historically low coupons. It has issued 25 some of its lowest coupons ever in 5-, 10-, and 30-year tenors. In addition, 26 the Company identified certain issuances that had not yet become due but 27 which carried coupons that were significantly above current interest rate 28 market conditions. In those instances, Oncor issued new debt with a longer

² Sempra subsequently obtained an additional approximately 0.22% interest in Oncor in a separate transaction.

maturity and a lower coupon to existing debt holders in exchange for retiring
 such high coupon debt.

3 Q. DESCRIBE ONCOR'S RECENT DEBT EXCHANGE TRANSACTIONS,

4 INCLUDING THE REASONS FOR AND THE BENEFITS OF SUCH 5 TRANSACTIONS.

6 Α. On two occasions during the 2017-2021 time period, Oncor successfully 7 offered holders of existing Oncor bonds the opportunity to exchange their existing bonds for newly-issued bonds. The tenors of the newly-issued 8 9 bonds were longer and the coupons, on average, were lower than the 10 existing bonds, though still above then-current market rates since Oncor did 11 not offer existing bondholders a cash premium. Oncor engaged investment 12 banks to determine the desired tenor and coupon, and in both cases the 13 transactions resulted in holders of approximately \$300 million aggregate 14 principal amount accepting the offers. In each case, the result was Oncor 15 being able to lower its annual interest expense and in turn reduce the overall 16 cost of debt.

17 Q. WHAT WAS ONCOR'S COST OF DEBT AT DECEMBER 31, 2021, AS
18 CALCULATED BASED ON THIS COMMISSION'S STANDARDS AS SET
19 FORTH IN SCHEDULE II-C-2.4?

A. Oncor's cost of debt at December 31, 2021, as shown in Schedule II-C2.4a, was 4.39%.

22 Q. DOES THIS COST OF DEBT REFLECT ONCOR'S HIGHER DEBT 23 RATING?

A. Yes. Oncor has issued additional debt since its ratings upgrades in March
25 2018. The issuances benefited from the higher debt ratings and were
26 issued at rates that were lower than they would have been absent the
27 upgrades.

28 Q. WILL ONCOR'S CUSTOMERS BENEFIT FROM THIS LOWER COST?

A. Yes, the debt issuances are included in the cost of debt as shown in
Schedule II-C-2.4a and result in a reduction in the cost of debt.

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- 1 Q. WHAT COST OF DEBT DO YOU RECOMMEND FOR THE RATE CASE?
- A. I recommend a cost of debt of 4.39%, the cost of debt as shown in
 Schedules II-C-2.1 and II-C-2.4a.
- 4 Q. DO YOU BELIEVE THE RECOMMENDED COST OF DEBT IS5 REASONABLE?
- 6 A. Yes, I do.
- 7

IV. SUSTAINABLE FINANCING

8 Q. WHAT IS SUSTAINABLE FINANCE AND WHY IS IT IMPORTANT?

9 A. Sustainable finance is a significant and growing share of the financial
10 market that takes into account environmental, social, and governance
11 ("ESG") considerations as part of investment decisions. Funding sources
12 are increasingly interested in promoting ESG goals through their
13 investments and investing in companies with a strong track record on ESG
14 matters.

- 15 Q. WHAT STEPS HAS ONCOR TAKEN TO GAIN ACCESS TO16 SUSTAINABLE FINANCING?
- Oncor created its first Corporate Sustainability Overview in 2020, developed 17 Α. the Oncor Sustainable Bond Framework (the "Framework"), and worked 18 with an independent third-party to obtain an ESG risk rating. In addition, 19 20 Oncor obtained a second-party opinion with respect to the Framework, 21 initiated a Sustainable Finance Committee, and communicated with 22 potential and current investors. Oncor's first ever sustainable bond offering 23 was then launched in September 2020. In 2021, Oncor issued its second 24 annual Corporate Sustainability Overview, received an updated 25 independent third-party ESG risk rating, and entered into a sustainability-26 linked revolving credit facility.

27 Q. WHAT IS ONCOR'S SUSTAINABLE BOND FRAMEWORK?

A. The Framework was designed and developed so that Oncor may issue,
from time to time, certain bonds or related debt instruments with net
proceeds that we intend to utilize to finance or refinance one or more

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1		projects that we believe may have environmental and/or societal benefits
2		("Sustainability Bond"). The Framework details the following:
3		1. Use of Proceeds: which project types are eligible for
4		financing/refinancing with the net proceeds from the sale of any
5		Sustainability Bonds Oncor may make from time to time, and how
6		those projects provide clear environmental and/or social benefits;
7		2. Process for Project Evaluation and Selection: relevant evaluation
8		elements include social objectives, the process for evaluation,
9		and the related eligibility and/or exclusion criteria;
10		3. Management of Proceeds: how proceeds are tracked and
11		verified; and
12		4. Reporting: how the Company intends to provide Sustainability
13		Bond reporting on a regular basis until the net proceeds of any
14		Sustainability Bond issuance are fully allocated or disbursed.
15	Q.	WHAT IS THE SIGNIFICANCE OF THE SECOND-PARTY OPINION WITH
16		RESPECT TO THE SUSTAINABLE BOND FRAMEWORK?
17	Α.	Companies often seek second-party opinions from independent entities to
18		provide investors assurance that the issuer's sustainable bond framework
19		is credible and meets certain guidelines set forth by the International Capital
20		Market Association.
21	Q.	PLEASE DESCRIBE THE SECOND-PARTY OPINION OBTAINED BY
22		ONCOR.
23	Α.	An independent ESG research, ratings, and data firm issued a second-party
24		opinion with respect to the Framework on September 17, 2020, regarding
25		its assessment that the Framework is credible and impactful and aligns with
26		the Sustainability Bond Guidelines issued in 2018 by the International
27		Capital Market Association. The opinion notes that its assessment is based
28		on review of the Framework's eligible categories for use of proceeds, the
29		Framework's project evaluation and selection process, the Framework's

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process for management of proceeds, and the Framework's plan for
 reporting use of proceeds.

Please also see the direct testimony of Company witness Mr.
Michael G. Grable for additional discussion of the Company's Framework
and efforts with regard to ESG.

Q. DESCRIBE ONCOR'S FIRST EVER SUSTAINABLE BOND OFFERING,
THE REASONS FOR THE OFFERING, AND THE ADVANTAGES OR
RESULTS OF THE OFFERING.

9 In September 2020, Oncor issued its inaugural Sustainability Bond. The Α. 10 Company issued \$450,000,000 of 0.55% Senior Secured Notes, due 2025. 11 Oncor used the proceeds from the sale of the 2025 Notes to finance or 12 refinance, in whole or in part, eligible projects consisting of investments in 13 or expenditures with minority- and women-owned business suppliers 14 pursuant to the Framework. Oncor believes that in the future, it is likely that 15 many investors will increasingly focus on sustainable and responsible companies to allocate capital. As an essential service provider and an 16 17 important corporate citizen in the communities in which we live and work, 18 Oncor recognizes its responsibility to contribute to and address some of the 19 most relevant social challenges of our time, and we believe sustainable 20 finance is a method in which we can make an impact in those social areas. 21 This particular offering by Oncor was very well received, obtaining, at the 22 time, one of the lowest ever 5-year coupons of any utility, and among the 23 lowest of any company, regardless of the industry. In September 2021, we 24 fully allocated the net proceeds of the offering to eligible expenditures with 25 minority- and women-owned business suppliers and completed the required 26 public reporting on our allocation of the proceeds.

27 Q. DESCRIBE ONCOR'S SUSTAINABILITY-LINKED CREDIT FACILITY.

A. In November 2021, Oncor entered into a new \$2 billion revolving credit
 facility that includes sustainability-linked pricing metrics, which replaced our
 previous revolving credit facility. The borrowing interest rate and lender

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1		commitment fees we pay under the life of this facility will be determined by
2		Oncor's credit ratings and may also be increased or decreased by Oncor's
3		performance on two sustainability-related key performance indicators
4		(KPIs): one environmental-related KPI (number of partially electric-
5		powered bucket trucks in Oncor's fleet at the end of the year) and one
6		safety-related KPI (a three-year average "days away-restricted-transferred"
7		or "DART" rate). The maximum pricing adjustment in any given year as a
8		result of our performance on those sustainability-related KPIs is +/- 0.01%
9		on the commitment fee and $+/-$ 0.05% on the borrowing interest rate.
10		V. <u>CAPITAL STRUCTURE</u>
11	Q.	WHAT WAS ONCOR'S CAPITAL STRUCTURE AT THE END OF THE
12		TEST YEAR?
13	A.	As shown on RFP Schedule II-C-2.1, the Company's capital structure, as
14		adjusted, as of December 31, 2021, is 55.0% long-term debt and 45.0%
15		common equity.
16	Q.	WHAT ADJUSTMENTS HAVE YOU MADE TO THE ACTUAL DECEMBER
17		31, 2021 AMOUNTS?
18	Α.	I have made several adjustments to the Company's actual December 31,
19		2021 capital structure. I have made adjustments to properly reflect the
20		amount of unamortized fees, expenses, premiums, and gains and losses
21		on reacquired debt. These adjustments are detailed on RFP Schedules II-
22		C-2.4 and II-C-2.4a and are consistent with the historical methodology used
23		in calculating Oncor's cost of capital in the Earnings Monitoring Report
24		required by the Commission and in rate cases. Adjustments to common
25		equity are explained in Company witness Mr. W. Alan Ledbetter's direct
26		testimony.
27	Q.	DOES ONCOR HAVE ANY SHORT-TERM DEBT IN ITS REQUESTED
28		CAPITAL STRUCTURE?
29	Α.	No. The Company had approximately \$215 million in short-term debt, all in
30		the form of commercial paper ("CP"), as of December 31, 2021. Oncor's
		Dockat No. Eason Direct

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1 CP program provides a lower cost alternative for short-term debt as 2 compared to our sustainability-linked revolving credit facility. Short-term 3 debt is intended to be used for funding construction work in progress 4 ("CWIP") and other working-capital purposes. The Company also funds 5 CWIP and its permanent investment in assets used to provide regulated 6 delivery service with available cash, long-term debt, and common equity.

7 Furthermore, in order to issue debt at more competitive rates, 8 investors must feel comfortable that the size of the issuance will be sufficient 9 to make the bonds liquid enough such that there will be a market for the 10 bonds if the investor decides to trade the bonds sometime before they 11 mature. A general rule of thumb is that a bond issuance should be large 12 enough to be eligible for inclusion in certain published bond indices. To be 13 eligible for inclusion in these indices, the issuance size must be at least 14 \$300 million. Therefore, short-term debt balances can change over time 15 based on the timing of long-term debt issuances, as well as cash flows from 16 the Company, which are seasonal, and levels of capital expenditures.

17 Q. WHAT CAPITAL STRUCTURE WAS APPROVED BY THE COMMISSION
18 IN ONCOR'S LAST BASE-RATE CASE, DOCKET NO. 46957?

A. Oncor's capital structure, as approved by the Commission in Docket No.
 46957, was 57.50% long-term debt and 42.50% common equity.

Q. IN DOCKET NO. 47675, FINDING OF FACT NO. 56, ONCOR MADE A
DEBT-TO-EQUITY COMMITMENT THAT REQUIRED ONCOR NOT TO
EXCEED ITS APPROVED DEBT-TO-EQUITY RATIO. HAS ONCOR
COMPLIED WITH THAT COMMITMENT?

25 A. Yes.

26 Q. HAS ONCOR MADE ANY COMMITMENTS REGARDING INTEREST
27 RATE SAVINGS SINCE THE END OF THE TEST YEAR IN ITS LAST
28 BASE-RATE CASE (DECEMBER 31, 2016)?

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- A. Yes. In Docket Nos. 47675 and 48929, the Commission required the
 Company to file interest-rate savings reports every six months detailing any
 interest rate-savings and determining a calculation of the credit.
- 4 Q. HAS ONCOR COMPLIED WITH THE INTEREST SAVINGS
 5 COMMITMENTS FROM DOCKET NOS. 47675 AND 48929?
- A. Yes. Oncor has filed semi-annual interest-rate savings reports with the
 Commission as required under Docket Nos. 47675 and 48929 in Docket
 Nos. 48669, 49314, 49936, 50630, 51266, 50829, 51881, 52545, and
 53320. Accumulated interest savings from these filings totaled more than
 \$17.4 million.

11 Q. HOW DOES THE ACQUISITION OF ONCOR ELECTRIC DELIVERY12 COMPANY NTU LLC AFFECT ONCOR'S CAPITAL STRUCTURE?

13 Α. Following the Commission's approval of the transaction in Docket No. 14 48929, Oncor Electric Delivery Company NTU LLC ("Oncor NTU") became an Oncor affiliate. As further explained in the direct testimony of Company 15 witness Mr. Ledbetter, the Company consolidates the results of operations 16 17 with those of Oncor NTU in the Company's external reporting and the 18 Company's rate filing in this proceeding consolidates its operations with those of Oncor NTU for ratemaking purposes, using Oncor's capital 19 20 structure, weighted average cost of debt and return on equity. The capital 21 structure of Oncor NTU approximates that of Oncor, which capital structure 22 was established using intercompany debt and equity. Oncor NTU pays 23 Oncor interest on this debt based on Oncor's weighted average cost of 24 debt. The interest expense Oncor NTU pays Oncor and the interest income 25 recorded by Oncor are eliminated in consolidation for financial reporting 26 purposes, with the result being no impact on Oncor's requested cost of 27 service.

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1		VI. COST OF CAPITAL
2	Q.	WHAT COST OF CAPITAL ARE YOU RECOMMENDING IN THIS CASE?
3	Α.	Oncor must be properly capitalized to ensure the continued financial
4		strength of the Company, thus providing it access to capital on reasonable
5		terms in the future. This will ensure that the Company can continue to
6		provide safe and reliable service to Texas electricity consumers at a
7		reasonable cost. I have calculated the cost of capital based upon the
8		recommended capital structure as provided by Company witness Ms.
9		Lapson and a 10.30% return on equity, based upon the return on equity
10		recommended by Company witness Mr. D'Ascendis. When combined with
11		the cost of debt, the recommended capital structure and cost of capital are
12		as follows:
13		Percent of Cost of
14 15		Capitalization Capital
16		Long-Term Debt 55.0% 4.39%
17		Common Equity 45.0% 10.30%
18		Total Weighted Cost of Capital 7.05%
19		Based upon this recommended capital structure and the associated cost of
20		capital, the required overall cost of capital for the Company is 7.05%. I have
21		provided this overall cost of capital to Company witness Mr. Ledbetter in
22		order to derive the total required dollar return for inclusion in the Company's
23		requested cost of service.
24	Q.	HOW DOES ONCOR'S PROPOSED NEW CAPITAL STRUCTURE
25		COMPARE TO ITS ACTUAL CAPITAL STRUCTURE AS OF DECEMBER
26		31, 2021?
27	Α.	As I mentioned above, Oncor's capital structure at December 31, 2021, was
28		55.0% long-term debt and 45.0% common equity. Thus, Oncor's requested
29		capital structure in this docket is its actual capital structure. So, to maintain
30		the proposed 55.0% debt and 45.0% equity capital structure, Oncor will

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need to manage its amount of debt and of equity consistent with its current
 capitalization.

3 Q. ARE THERE OTHER MATTERS THAT THE COMMISSION SHOULD
4 TAKE INTO CONSIDERATION IN DETERMINING THE PROPER RATE
5 OF RETURN?

6 As discussed by several Company witnesses, including Messrs. Α. Yes. 7 James A. Greer, Keith Hull, Wesley R. Speed, Collin M. Martin, Grable, and Joel S. Austin, Oncor has established a high degree of efficiency in its 8 9 operations, provides a superior quality of service, is well managed, and has taken a leadership position in Texas and the nation in the investment and 10 11 development of energy efficiency, transmission to facilitate renewable 12 resources, and other advanced technologies. In 2017 through 2021, Oncor 13 spent approximately \$250 million in energy efficiency development, and 14 Oncor plans to spend another approximately \$50 million in each of the years 15 2022 and 2023. Over the same period, Oncor has invested over \$900 16 million in technology-related upgrades and replacements. In addition to the 17 investments in energy efficiency development and technology-related 18 upgrades and replacements described above, since the beginning of 2017, 19 Oncor has invested over \$12.1 billion in transmission and distribution 20 infrastructure, and Oncor plans to invest an additional \$15 billion of capital 21 in the 2022-2026 timeframe, a plan that substantially exceeds any other 22 utility's capital plan in Texas. These investments are in addition to the high 23 operational performance and efficiencies demonstrated by the Company 24 since 2017 as described in detail by Mr. Greer (e.g., low O&M cost per 25 customer and high level of system reliability). As discussed in the direct 26 testimony of Company witness Mr. D'Ascendis, this capital plan also 27 presents a significant degree of risk that must be considered when 28 evaluating Oncor's return on equity.

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1 Section 36.052 of the Public Utility Regulatory Act states:

In establishing a reasonable return on invested capital, the
regulatory authority shall consider applicable factors,
including: (1) the efforts and achievements of the utility in
conserving resources; (2) the quality of the utility's services;
(3) the efficiency of the utility's operations; and (4) the quality
of the utility's management.

9 The Commission should give careful consideration to the Company's
10 excellent performance and leadership in each of these areas in determining
11 the proper rate of return.

12 Q. GIVEN THE COMPANY'S FIVE-YEAR CAPITAL PLAN, WILL ONCOR
13 HAVE A REASONABLE OPPORTUNITY TO EARN A REASONABLE
14 RETURN ON ITS INVESTED CAPITAL?

No. Oncor's ability to earn its authorized return is greatly hindered to the 15 A. -16 point that it is effectively impossible. Given the Company's large capital 17 plan of \$15 billion from 2022-2026 and the need to continue to provide safe 18 and reliable service to new and existing customers, Oncor does not have 19 the ability to offset the shortfall in return on a sustained basis. 20 Approximately two-thirds of the capital plan relates to funding transmission and distribution grid expansion projects, which are necessary to 21 22 accommodate the growth in Oncor's service territory. The extent of this 23 level of capital spending, together with the attendant regulatory lag inherent 24 in recovering these expenditures in rates, will result in Oncor's inability to 25 earn its authorized return, whatever that return is. Oncor is experiencing 26 this result now, and it will experience this same result when its new rates 27 are in effect, only the result will be exacerbated as it embarks on a larger 28 capital plan than in past periods.

The Company recognizes that there are many factors that contribute to a utility having the ability to earn its authorized ROE, some of which are within the utility's control. That being said, to achieve the authorized ROE in this case, whatever it may be, Oncor would have to drastically slash its

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capital plan and/or cut its O&M budget to a level that would put at risk safety
and reliability. That is unacceptable to the citizens of Texas given the vast
majority of the capital plan results from the economic growth that is the life
blood of the state, as well as of Oncor's service territory, and safety and
reliability must not be compromised. This investment is necessary.

6 The Company is not requesting a specific adjustment to its ROE 7 beyond the ROE sponsored by Oncor witness Mr. D'Ascendis due to its 8 inability to earn its authorized ROE. However, I would submit that the fact 9 that Oncor will not be able to earn its authorized ROE must be considered 10 by the Commission in selecting the Company's ROE in this docket.

11

VII. PENSION AND OTHER POSTRETIREMENT BENEFITS PLANS

12 Q. BRIEFLY DESCRIBE ONCOR'S PENSION AND OTHER13 POSTRETIREMENT BENEFITS PLANS.

14 Oncor participates in three pension plans: the Oncor Retirement Plan: the Α. 15 Oncor Supplemental Retirement Plan; and the Vistra Energy Retirement 16 Plan (formerly known as the EFH Retirement Plan). Oncor sponsors the 17 Oncor Retirement Plan, which is a gualified plan under Section 401(a) of 18 the Internal Revenue Code of 1986, as amended, and the Oncor Supplemental Retirement Plan. Oncor also has contractual liabilities 19 20 relating to the Vistra Energy Retirement Plan that is sponsored by Vistra 21 Oncor also sponsors two benefit plans that provide other Enerav. 22 postemployment benefits ("OPEBs"): the Oncor Retiree Welfare Plan and 23 the Oncor Shared Retiree Welfare Plan.

Annual retirement benefits under the Oncor Retirement Plan are computed differently for the traditional component and the cash balance component. Under the traditional defined benefit component, benefits are computed as a percentage of the highest three-year average pay at retirement for each year of service. Under the cash balance component, hypothetical accounts are established for participants that receive periodic

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credits based on pay and service. In addition, interest credits are added to
 the account using a rate defined in the plan.

3 Further, retired employees and their eligible dependents, as well as certain retirees of Vistra Energy/EFH Corp. with regulated service, are 4 5 provided access to OPEBs (consisting of retiree health care benefits, including medical, prescription drug, and dental coverage, as well as group 6 7 term-life insurance coverage) through the Oncor Retiree Welfare Plan and the Oncor Shared Retiree Welfare Plan, which are both sponsored by 8 9 Oncor. Please see the direct testimony of Company witnesses Mr. Alan S. 10 Taper and Ms. Angela Y. Guillory for additional discussion on Oncor's pension and OPEBs. 11

- 12 Q. HAS THE COMMISSION PREVIOUSLY APPROVED THE RECOVERY13 OF COSTS RELATED TO THESE PLANS?
- A. Yes. The Commission has included the expenses related to these plans in
 Docket Nos. 5640, 9300, 11735, 22350, 35717, 38929 and 46957.
- 16 Q. HAVE THERE BEEN ANY SIGNIFICANT CHANGES TO THE PENSION17 PLANS SINCE LAST REVIEWED BY THE COMMISSION?
- 18 A. No. However, since 2017, Oncor has taken action to transfer pension risk.
- 19 Q. PLEASE DESCRIBE THE ACTION ONCOR HAS TAKEN TO TRANSFER20 PENSION RISK.

21 Α. In 2019, Oncor completed an annuity purchase transferring recoverable 22 pension benefit obligations ("PBO") and corresponding plan assets of \$74.5 23 million to a high-quality insurance carrier specializing in the pension annuity 24 business. In 2020, Oncor offered one-time lump sum payments in lieu of 25 future pension annuities to employees covered by the Oncor Retirement 26 Plan reducing recoverable PBO and corresponding plan assets by \$28.8 27 million. And in 2021, Oncor completed a second annuity purchase 28 transferring recoverable PBO and corresponding plan assets of \$76.5 29 million to a high-quality insurance carrier specializing in the pension annuity 30 business.

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Q. ARE THE BENEFITS PROVIDED UNDER THE PENSION AND OPEB
 PLANS THE SAME TODAY AS THEY WERE IN THOSE CASES
 PREVIOUSLY REVIEWED BY THE COMMISSION?

4 A. Yes.

5 Q. HAVE THERE BEEN ANY SIGNIFICANT CHANGES TO THE OPEB PLAN
6 SINCE LAST REVIEWED BY THE COMMISSION?

7 A. Yes. Effective January 1, 2018, Oncor established a second plan, the 8 Shared Retiree Welfare Plan, to cover eligible retirees of Oncor and Vistra Energy whose employment services were assigned to both Oncor (or a 9 10 predecessor regulated utility business) and the non-regulated business of 11 Vistra Energy. Vistra Energy is solely responsible for its portion of the 12 liability for retiree benefits related to those retirees. The Shared Retiree 13 Welfare Plan is further described in the direct testimony of Company 14 witnesses Mr. Taper and Ms. Guillory.

15 Q. HAS ONCOR EXPERIENCED ANY CHANGES IN COSTS ASSOCIATED
16 WITH THE PENSION AND OPEB PLANS SINCE LAST REVIEWED BY
17 THE COMMISSION?

Yes. Oncor's total annual GAAP pension and OPEB costs have decreased 18 Α. 19 from \$138 million in fiscal year 2017 to \$67 million in fiscal year 2022. The 20 \$71 million net decrease is primarily attributable to a significant reduction in 21 the unfunded benefit obligations during the period, which was partially offset 22 by a slight increase in the annual service costs. The net impact of the steps 23 Oncor has taken to manage the pension and OPEB plans over the period has contributed to the significant reduction in the unfunded benefit 24 obligation. 25

26 Q. ARE THE COMPANY'S COSTS FOR THE PENSION AND OPEBS27 REASONABLE?

A. As discussed above, the costs for pensions and OPEBs, as described in
 the direct testimony of Company witness Mr. Taper, are reasonable and

- necessary. These amounts have been provided to Company witness Mr.
 Ledbetter for inclusion in the cost of service.
- З

VIII. INSURANCE OVERVIEW

4 Q. DESCRIBE GENERALLY ONCOR'S INSURANCE PROGRAM.

5 Α. Oncor's overall property and liability insurance program utilizes a blend of 6 commercial insurance and self-insurance to minimize the financial 7 implications of future contingent events or risks of damage to Oncor's 8 assets. Oncor's insurance program covers property and liability losses 9 associated with aviation, crime, cyber and technology, directors and 10 officers, fiduciary, professional, transmission and distribution assets, 11 facilities and infrastructure, terrorism and sabotage, workers comp and 12 employers' liability. Oncor now utilizes: (1) its self-insurance plan for 13 insurable property loss occurrences categorized as operations and 14 maintenance ("O&M") expenses of \$500,000 to \$10,000,000 and liability 15 loss occurrences of \$500,000 to \$3,000,000; (2) commercial insurance for 16 certain insurable property losses over \$10,000,000 and liability losses exceeding \$3,000,000; and (3) its self-insurance plan for uninsurable loss 17 18 occurrences categorized as O&M expenses to transmission and distribution 19 units of property, such as towers, poles, and wires, at and above \$500,000 20 per occurrence. The commercial policy for property losses also has a 21 separate \$100,000 deductible that applies to property loss at office locations 22 and service centers. During the test year, the upper limit of its self-23 insurance plan for insurable property loss occurrences categorized as O&M 24 expenses changed from \$2,000,000 to \$10,000,000. As described in the 25 direct testimony of Company witness Mr. Gregory S. Wilson, self-insurance 26 provides a lower-cost alternative to purchasing commercial insurance for all 27 losses that could potentially occur to the Company's assets.

Q. HAS ONCOR EXPERIENCED ANY CHANGES IN EXPENSES
 ASSOCIATED WITH COMMERCIAL INSURANCE PREMIUMS IN
 RECENT YEARS?

1 Α. Yes. Recently, commercial insurance premiums have risen at a very high 2 rate. For example, in 2020, Oncor's expense associated with commercial 3 insurance premiums was approximately \$15.6 million. During the test year 4 (calendar year 2021), Oncor's insurance premiums totaled approximately 5 \$19.2 million for policies with higher deductibles and less coverage than for calendar year 2020, thus shifting the risk of certain expenses associated 6 with claims from insurance companies to Oncor. It is the Company's 7 8 understanding that this is a negative trend being experienced across the 9 utility industry.

10 Q. IS ONCOR PROPOSING ANY KNOWN AND MEASURABLE CHANGES
11 TO THE COST OF SERVICE ASSOCIATED WITH COMMERCIAL
12 INSURANCE PREMIUMS?

A. Yes, the cost of service is being adjusted upward to account for continuing
 increases in commercial insurance premiums as described above. The
 Company is proposing a \$3.1 million known and measurable change to
 reflect a full year of increased commercial insurance policy premiums that
 have increased since the end of the test year. I have provided these
 adjustments to Oncor witness Mr. Ledbetter for inclusion in the cost of
 service.

20 Q. IS ONCOR'S INSURANCE PROGRAM, INCLUDING ITS USE OF
21 COMMERCIAL INSURANCE AND SELF-INSURANCE, REASONABLE
22 AND NECESSARY?

A. Yes, the Company's insurance program, including its use of commercial
insurance and self-insurance at the levels set forth in my testimony, balance
the needs of Oncor and support its ability to provide safe and reliable
service to its customers at a reasonable cost.

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Fease - Direct Oncor Electric Delivery 2022 Rate Case

1		IX. SUMMARY AND CONCLUSION
2	Q.	WHAT ARE YOUR CONCLUSIONS WITH REGARD TO YOUR DIRECT
3		TESTIMONY?
4	Α.	My conclusions are as follows:
5		• Oncor's proposed capital structure, return on equity, and cost of debt
6		are reasonable and will provide the Company with the ability to obtain
7		capital at reasonable rates that will be necessary to fund the growth
8		that is being experienced in ERCOT and provide Oncor with a
9		reasonable opportunity to earn a reasonable return on its rate base;
10		Oncor's costs associated with pension and OPEBs are reasonable
11		and necessary and anything less than full recovery could be
12		perceived negatively by rating agencies and investors and could
13		impact our creditworthiness; and
14		• Oncor's insurance program, and costs associated with that program,
15		including the costs related to self-insurance, are reasonable and
16		necessary.
17	Q.	DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?
18	Α.	Yes, it does.

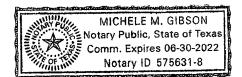
STATE OF TEXAS § SCOUNTY OF DALLAS §

BEFORE ME, the undersigned authority, on this day personally appeared Kevin R. Fease, who, having been placed under oath by me, did depose as follows:

My name is Kevin R. Fease. I am of legal age and a resident of the State of Texas. The foregoing direct testimony and the attached exhibit offered by me are true and correct, and the opinions stated therein are accurate, true and correct.

Kevin R. Fease

SUBSCRIBED AND SWORN TO BEFORE ME by the said Kevin R. Fease this 15^{+h} day of Apple, 2022.



Notary Public, State of Texas

Rate Filing Package Schedules Sponsored By Kevin R. Fease

.

<u>Schedule</u>	Title of Schedule
II-C-1	Rate of Return Calculation
II-C-1.1	Rate of Return Method
II-C-2.1	Weighted Average Cost of Capital
II-C-2.2	Weighted Average Cost of Preferred Stock
II-C-2.2a	Adjusted Cost of Preferred Stock
II-C-2.3	Weighted Average Cost of Preferred Trust Securities
II-C-2.3a	Adjusted Cost of Preferred Trust Securities
II-C-2.4	Weighted Average Cost of Long-Term Debt
II-C-2.4a	Adjusted Cost of Long-term Debt
II-C-2.5	Weighted Average Cost of Short-Term Debt
II-C-2.5 a − I	Average Daily Balances and Cost of Bank Borrowings
II-C-2.6	Security Issuance Restrictions
II-C-2.7	Capital Requirements and Acquisition Plan
II-C-2.8	Financial Ratios
II-C-2.9	Historical Growth in Earnings, Dividends and
	Book Value
II-C-2.10	Rating Agency Reports
II-D-3.8	Pension Expense
II-D-3.9	Postretirement Benefits Other Than Pension
II-G-1	Status of Nuclear Decommissioning Funds

2022 RATE CASE ONCOR ELECTRIC DELIVERY COMPANY LLC WORKPAPERS FOR THE DIRECT TESTIMONY OF KEVIN R. FEASE

Mr. Fease has no supporting workpapers for his direct testimony.

INDEX TO THE DIRECT TESTIMONY OF ELLEN LAPSON, CFA, WITNESS FOR ONCOR ELECTRIC DELIVERY COMPANY LLC

1.	POSITION AND QUALIFICATIONS	3
11.	PURPOSE OF TESTIMONY	4
111.	IMPORTANCE OF FINANCIAL STRENGTH	5
	A. Overview	5
	B. Credit Ratings are Measures of Financial Capability	8
IV.	EFFECTS OF FINANCIAL LEVERAGE	13
V.	CAPITAL STRUCTURE	
	A. Actual Capital Structure Analysis	
	B. Pro Forma Analysis	
VI.	RECOMMENDATIONS AND CONCLUSIONS	
AFFI	DAVIT	

EXHIBITS

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CONFIDENTIAL EXHIBITS FILED UNDER SEAL

Exhibit EL-6	Moody's Investors Service, "Credit Opinion: Oncor
	Electric Delivery LLC," April 9, 2020 (Confidential)
Exhibit EL-7	Fitch Ratings, "Rating Report: Oncor Electric Delivery
	Company LLC," May 7, 2020 (Confidential)
Exhibit EL-8	S&P Global Direct, Ratings Direct, "Oncor Electric
	Delivery LLC," April 7, 2020 (Confidential)
Exhibit EL-9	Moody's Investors Service, "Credit Opinion: Oncor Electric Delivery LLC," June 3, 2021 (Confidential)

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Lapson - Direct Oncor Electric Delivery 2022 Rate Case

EXHIBITS cont.

Exhibit EL-10	S&P Global Direct, Ratings Direct, "Oncor Electric
	Delivery Co. LLC," May 14, 2021 (Confidential)
Exhibit EL-11	Fitch Ratings, "Rating Action Commentary: Fitch
	Affirms Sempra and Subsidiaries, Rating Outlook
	Stable," April 8, 2021 (Confidential)
Exhibit EL-12	Pro Forma Credit Rating Analysis: Effects of Alternate
	Capital Structure (Confidential)

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Lapson - Direct Oncor Electric Delivery 2022 Rate Case

1		DIRECT TESTIMONY OF ELLEN LAPSON, CFA
2		I. POSITION AND QUALIFICATIONS
3	Q.	PLEASE STATE YOUR NAME, BUSINESS ADDRESS, AND CURRENT
4		EMPLOYMENT POSITION.
5	A.	My name is Ellen Lapson. My business address is 370 Riverside Drive,
6		New York, NY 10025. I am the principal of Lapson Advisory, an
7		independent financial consulting firm.
8	Q.	PLEASE DESCRIBE YOUR EDUCATIONAL BACKGROUND AND
9		PROFESSIONAL EXPERIENCE.
10	A.	I am a Chartered Financial Analyst, having earned the CFA designation,
11		and a Master of Business Administration from New York University Stern
12		School of Business with specialization in accounting and finance. I have
13		worked in the capital markets space with particular focus on financing or
14		analyzing the finances of regulated public utilities for the past 50 years.
15		began my career as a securities analyst at Argus Research Corporation
16		analyzing utility company equity securities. For the next 20 years, I held
17		several posts at a predecessor of J.P. Morgan as a corporate banker and
18		investment banker structuring and executing financing transactions for
19		utility and infrastructure companies. Thereafter, I worked for 17 years, first
20		as a senior director and then as a managing director at Fitch Ratings, a
21		major credit rating agency, where I managed analysts who rated credit in
22		the sectors of electricity and natural gas and project finance and chaired
23		rating committees. Upon leaving Fitch Ratings ten years ago, I founded
24		Lapson Advisory. The list of my professional qualifications appears in
25		Oncor Exhibit EL-1.
26	Q.	WHAT ARE THE PRIMARY RESPONSIBILITIES OF YOUR CURRENT
27		POSITION?
28	Α.	At Lapson Advisory, my role is to advise companies in the utility and
29		infrastructure sector on how to maintain or improve their access to capital
20		indendetate sector on new to maintain or improve their docess to capital

1		markets. This often includes expert witness testimony on utility financial
2		matters. Also, I develop and conduct professional training programs in
3		corporate finance, project finance, and credit analysis for the gas and
4		electric sectors.
5	Q.	HAVE YOU EVER SUBMITTED TESTIMONY BEFORE THE PUBLIC
6		UTILITY COMMISSION OF TEXAS ("COMMISSION")?
7	A.	Yes, the following is a list of docket numbers of my prior or pending
8		testimony before this Commission: 46416, 46957, 47527, 48323, 48371,
9		48401, 48929, 49421, 49849, and 51547. Exhibit EL-1 to my testimony
10		includes a list of my expert witness assignments in various state and federal
11		jurisdictions.
12		II. <u>PURPOSE OF TESTIMONY</u>
13	Q.	WHAT IS THE PURPOSE OF YOUR TESTIMONY?
14	A.	The objective of my direct testimony is to recommend an appropriate
15		regulatory capital structure for Oncor Electric Delivery Company LLC
16		("Oncor" or the "Company"), as a part of the determination of Oncor's
17		authorized cost of capital.
18		The relative amounts of equity and debt authorized in the capital
19		structure to support the assets employed by the utility to serve customers
20		are a major input in the Commission's finding regarding the cost of capital.
21		This, in turn, will affect Oncor's revenue requirements, which drives Oncor's
22		operating cash flow when the rates determined in this proceeding are in
23		effect and consequently the financial strength and resilience of the
24		Company.
25		My direct testimony, the attached exhibits, and the associated
26		workpapers were prepared by me or under my direction, supervision, or
27		control and are true and correct.
28	Q.	HOW IS THE BALANCE OF YOUR DIRECT TESTIMONY ORGANIZED?
29	Α.	The remainder of my direct testimony includes the following sections:

1		Section III discusses the importance of financial strength at all times
2		for a utility with responsibility for serving customers' needs and
З		explains that credit ratings are considered an important measure of
4		financial capability and are highly regarded by capital market
5		investors.
6		Section IV discusses the effect of a company's capital structure on
7		its financial strength and credit quality. This section explains how
8		cash flow measures are used as indicators of financial leverage or
9		financial flexibility.
10		• Section V explores Oncor's current financial status and ability to
11		maintain its current credit ratings. I present a model that shows the
12		effect of retaining the capital structure of 42.5% equity and 57.5%
13		long-term debt (Oncor's authorized capital structure since October
14		13, 2017) and an alternate capital structure made up of 45% equity
15		and 55% long-term debt (Oncor's approximate actual capital
16		structure at December 31, 2021).
17		Section VI presents my conclusions and recommendation that
18		Oncor's proposed capital structure of 45% equity and 55% long-term
19		debt be approved.
20		III. IMPORTANCE OF FINANCIAL STRENGTH
21		A. Overview
22	Q.	DOES CAPITAL STRUCTURE AFFECT THE COMPANY'S FINANCIAL
23		RESILIENCY AND ABILITY TO ATTRACT CAPITAL?
24	Α.	Yes. Major factors determining the Company's operating cash flow are the
25		regulatory capital structure and authorized return on equity capital, in
26		combination with certain regulatory accounting measures adopted by the
27		Commission. The resultant operating cash flow determines Oncor's
28		financial strength, liquidity, and its ability to attract capital, all of which

enable the Company to fulfill the utility's public service mandate and satisfy
 customers' demands.

3 Q. IS ONCOR'S CONTINUED FINANCIAL STRENGTH IMPORTANT?

A. Yes. Financial strength is a critical resource that underlies Oncor's ability
to fulfill its obligation to meet the needs of electricity consumers for reliable
service. Sound financial condition enables a company not only to cover its
operating expenses but also to attract capital on favorable terms during all
phases of the capital market cycle, in good times and bad.

9 The business of electricity delivery (transmission and distribution) is 10 capital-intensive. The Company has an obligation to invest continuously in 11 long-lived fixed assets to handle the growth in connections, comply with 12 changing governmental mandates and safety regulations, replace 13 infrastructure at the end of its useful life, and enhance the resilience and 14 reliability of its systems. These needs will require steady access to the bond 15 market for funding and to sources of liquidity and credit.

16 Oncor has invested approximately \$10.5 billion over the five-year 17 period from 2017-2021, or an average of almost \$2.1 billion per year, including approximately \$2.5 billion in each of 2020 and 2021.¹ The 18 19 Company's capital expenditures are estimated to be \$2.8-\$3.0 billion in 2022 and to average approximately \$3.0-\$3.1 billion per year in each year 20 21 2023-2026.² These capital spending needs exceed cash flow produced by 22 internal sources, resulting in projected cash shortfalls of \$800 million per 23 annum or more that must be funded by borrowing or equity infusions from 24 Oncor's owners. Therefore, continuing access to external debt and equity 25 capital is needed to fund the projected investment in fixed assets.

Oncor Electric Delivery Company LLC, Annual Report on Form 10-K for the year ended December 31, 2021, "Statements of Consolidated Cash Flows" and page 38.
 ² Ibid. at 39.

Q. ASIDE FROM FUNDING PLANNED CAPITAL INVESTMENT PROJECTS,
 WHAT OTHER NEEDS DOES ONCOR HAVE THAT REQUIRE GOOD
 ACCESS TO CAPITAL MARKETS AND STRONG FINANCIAL
 CAPABILITY?

A. Oncor also depends upon external debt issuance in the capital market to
 refund maturities of long-term bonds, including approximately \$2.0 billion of
 maturing bonds in the next five years.³ Oncor also needs to maintain a
 strong credit standing in order to access short-term borrowings from the
 commercial paper market or under its banking facilities on favorable terms.

10 Q. WHY IS ACCESS TO SHORT-TERM BORROWING IMPORTANT TO11 ONCOR?

12 For interim and short-term funding, Oncor depends upon the issuance of Α. commercial paper notes ("CP") supported by bank credit through a \$2 billion 13 14 revolving credit facility renewed in 2021 for a term of five years. Oncor uses 15 these liquidity sources to bridge seasonal mismatches between revenues 16 and expenses and to pay for capital expenditures prior to the issuance of 17 long-term mortgage bonds. Also, natural disasters such as tornadoes or 18 ice storms occasionally require Oncor to make extraordinary and 19 unexpected expenditures to restore service. For this purpose, Oncor must 20 maintain strong credit with its counterparties (such as suppliers and 21 equipment vendors, work crews, contractors, and providers of other 22 emergency services) as well as sources of short-term funding to perform 23 immediate restoration. With strong credit and access to funding, there is no 24 need to delay work until the Company can raise long-term capital in the 25 public market. Electric consumers and the public interest benefit from the 26 utility's financial strength, liquidity, and access to capital.

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³ Bond maturities are: \$488 million in 2022 (after taking into account \$400 million principal amount of senior secured notes that were redeemed March 1, 2022), \$500 million in 2024, \$974 million in 2025 and \$38 million in 2026. Oncor Annual Report on Form 10-K for the year ended December 31, 2021, at page 39.

1		B. Credit Ratings are Measures of Financial Capability
2	Q.	ARE THERE OBJECTIVE EVALUATIONS OF CORPORATE FINANCIAL
З		STRENGTH THAT ARE RECOGNIZED BY BANKERS, CREDIT
4		COUNTERPARTIES, AND INVESTORS?
5	Α.	Yes. Long-term credit ratings by recognized credit rating agencies ("CRAs")
6		evaluate the business and financial characteristics and risks of companies
7		against transparent criteria, taking into consideration key factors such as
8		the stability and predictability of operating cash flow in relation to the amount
9		of debt and other financial commitments. The long-term credit rating is a
10		measure of the estimated risk of default on payments and serves as a
11		widely accepted measure of a company's financial soundness and liquidity.
12	Q.	WHAT ARE ONCOR'S LONG-TERM CREDIT RATINGS AT APRIL 1,
13		2022?
14	Α.	The three most widely recognized CRAs are Moody's Investors Service
15		("Moody's"), Standard & Poors ("S&P"), and Fitch Ratings ("Fitch"). Two
16		CRAs, S&P and Fitch, publish explicit long-term unsecured credit ratings
17		that S&P calls its "Issuer Credit Rating" and Fitch identifies as its "Issuer
18		Default Rating." Each of these is an unsecured rating that signifies the
19		estimated risk of default.
20 21		Table EL-1: Oncor's Long-Term Credit Ratings ⁴ (as of April 1, 2022)

Rating Agency	Issuer Credit Rating (Senior Unsecured)	Senior Secured Mortgage Bond Rating
S&P	A	A+
Fitch	BBB+	A
Moody's	Baa1 (implied)	A2

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⁴ For the correspondences of the credit rating symbols of the three major CRAs, please see Exhibit EL-2.

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REDACTED VERSION

1		Moody's long-term unsecured issuer rating for Oncor is shown in Table 1
2		as "Implied." While Moody's does not routinely disclose a long-term
3		unsecured issuer credit rating for Oncor, its rating policy is to rate the senior
4		secured mortgage bonds of utilities two notches higher than its undisclosed
5		senior unsecured rating. Following this pattern, the current "implied" long-
6		term unsecured rating of Oncor by Moody's is Baa1, equivalent to the BBB+
7		rating by Fitch.
8		Each CRA publishes a rating of Oncor's senior secured mortgage
9		bonds, as shown in the right-most column of Table EL-1 above.
10	Q.	IS IT UNUSUAL FOR A COMPANY TO HAVE DIVERGENT CREDIT RATINGS
11		FROM DIFFERENT CREDIT RATING AGENCIES?
12	Α.	No. Since each of the CRAs applies its own methodologies to assign
13		ratings, such discrepancies do occur. When there are different ratings by
14		two or three agencies, investors reconcile the ratings.
15	Q.	WHEN SUCH DIFFERENCES OCCUR, HOW DO INVESTORS
16		EVALUATE THE CREDIT RATINGS?
17	Α.	One conventional approach is the "middle of three ratings" approach. Using
18		the "middle of the ratings" method, the highest rating is S&P's A rating, while
19		Fitch and Moody's agree on a rating of BBB+/Baa1. So, Oncor's three
20		ratings are reconciled using the "middle rating" of BBB+/Baa1. This
21		approach is demonstrated in the lower half of Exhibit EL-2. 5
22	Q.	WHY ARE ONCOR'S SENIOR SECURED RATINGS FROM EACH CRA
23		HIGHER THAN ONCOR'S ISSUER CREDIT RATINGS OR UNSECURED
24		DEBT RATING FROM THE SAME AGENCY?
25	Α.	When valuable collateral is pledged to secured bondholders or lenders, if
26		the borrower were to default on payments, then the secured creditors can

⁵ A less common approach assigns points and computes the average of the ratings. Under that method, the average of three ratings for Oncor is A-/A3. See Exhibit EL-2.

1 expect to have a higher level of recovery than may be the case for senior 2 unsecured creditors. In recognition of the fact that the secured obligations 3 of rate-regulated utilities have demonstrated high recoveries in historical 4 bankruptcies, the three CRAs assign ratings to secured debt instruments 5 that are higher than the explicit or implied rating of senior unsecured debt 6 of the same company. In this case, Moody's and Fitch rate Oncor's senior 7 secured mortgage bonds two notches higher than Oncor's implied 8 unsecured or issuer credit rating, while S&P's secured mortgage bond 9 rating for Oncor is one notch higher than the Company's unsecured issuer 10 default rating. The secured ratings apply only to specific debt instruments 11 that include an explicit pledge of collateral, and do not apply to the general 12 or unsecured obligations of the entity.

Q. WHICH RATINGS MORE APPROPRIATELY MEASURE A COMPANY'S
 FINANCIAL SOUNDNESS, THE SECURED INSTRUMENT RATINGS OR
 THE UNSECURED ISSUER CREDIT RATINGS?

16 Α. The long-term unsecured issuer credit rating at S&P, issuer default rating 17 at Fitch, and implied unsecured debt rating at Moody's are the relevant 18 indicators of a company's ability to make timely payments on obligations, and as an indicator of financial soundness. 19 The unsecured rating 20 represents the credit rating agency's degree of assurance that a company 21 can make its committed payments and fulfill all its financial obligations 22 during the rating horizon. In the case of utilities in the investment grade 23 category, the rating horizon is typically three to five years. The unsecured 24 rating is meaningful for comparing companies' financial stability on an 25 equivalent basis, before considering expected recovery of principal through 26 a bankruptcy process after a company's default. For vendors, suppliers, 27 employees, and holders of CP notes, the unsecured rating or issuer credit 28 rating is the relevant measure of creditworthiness.

Q. FOR WHAT PURPOSE ARE ONCOR'S SENIOR SECURED DEBT 1 2 **RATINGS MORE RELEVANT?** 3 Α. Oncor has issued all of its corporate debt pursuant to a pledge of most of 4 its fixed assets as collateral to secured bondholders and bank revolving 5 credit lenders. Oncor's senior secured debt ratings combine the probability 6 of default and expected higher value of recovery of principal in the event of 7 default. The presence of collateral pledged to the bondholders and the 8 resultant secured debt ratings influence Oncor's cost of debt, as explained 9 in the direct testimony of Company witness Mr. Kevin R. Fease. 10 WHEN CONSIDERING WHETHER A COMPANY IS OF INVESTMENT-Q. 11 GRADE OR SUB-INVESTMENT GRADE STATUS, WHICH RATINGS 12 ARE RELEVANT? 13 Α. The long-term unsecured issuer credit rating (or in the case of Moody's, the 14 implied unsecured debt rating) is relevant for that purpose. ARE ONCOR'S UNSECURED LONG-TERM CREDIT RATINGS IN THE 15 Q. INVESTMENT GRADE CATEGORY? 16 17 Α. Yes, they are. WHEN A COMPANY'S LONG-TERM CREDIT RATINGS ARE WITHIN 18 Q. 19 THE INVESTMENT GRADE CATEGORY, DOES THAT MEAN THAT 20 THERE IS NO NEED TO IMPROVE OR SAFEGUARD THE COMPANY'S 21 FINANCIAL STRENGTH AND FLEXIBILITY? 22 Α. No. Having investment grade ratings in the BBB range (S&P and Fitch) or 23 Baa range (Moody's) is a minimum requirement for sustainable 24 management of a public utility, but a higher rating gives greater stability and 25 In my professional experience, ability to withstand financial stress. 26 maintaining unsecured debt ratings (that is, issuer ratings) in the single-A category provides a greater level of assurance of the ability to meet all 27 28 needs, even under adverse circumstances and at all phases of the capital 29 market cycle.

Q. HOW OR WHEN DO UTILITIES AND CONSUMERS BENEFIT FROM THE UTILITY'S STRONGER FINANCIAL CAPABILITY?

3 Α. Utilities' access to long-term and short-term debt funding varies depending upon capital market cycles. During normal periods in the financial markets, 4 5 including the present moment, rate-regulated utilities with investment grade 6 credit ratings typically are able to issue new debt instruments in large 7 amounts at any level of ratings, while sub-investment grade credits have 8 less assured access to new funding. But, times are not always as favorable 9 to issuers in the capital market as the present market phase. During periods 10 of financial market distress (such as September 2008 through early 2010, 11 or February to March 2020), access to the long-term and short-term debt 12 markets becomes constrained not only for sub-investment grade credits but 13 also for those in the two lowest ratings in the investment grade category. 14 These are unsecured ratings of BBB and BBB- (from S&P or Fitch) or the 15 equivalent Moody's ratings of Baa2 and Baa3.

During past times of market transition or distress, issuers with unsecured credit ratings in the range of low A (A- or A3) to high A (A+ or A1) were able to sell bonds in the long-term market when companies with credit ratings in the low BBB (Baa) categories were hesitant to fund or refund maturing debt or carry out their capital expenditures as planned.

Q. WHAT ARE THE ADVERSE CONSEQUENCES FACING UTILITIES WITH
LOWER CREDIT RATINGS OR LESSER FINANCIAL STRENGTH
DURING PERIODS OF MARKET CONSTRAINT?

A. Companies with weaker access to capital may have no alternative but to
draw heavily on their bank lines during the period of market stress. They
experience higher costs of funding and a scarcity of new bank credit
commitments and face a greater risk of illiquidity. Typically, bank capital is
constrained at the very time of financial market stress.

While Oncor did not lose access to funding from 2008 to 2010 or in
 the first quarter of 2020, there is no assurance that future periods of financial
 market instability will be as benign for Oncor. Capital markets may be
 constrained at the very time when Oncor faces an unexpected financing
 need. At such times, having a very sound equity position and lower financial
 leverage becomes particularly important.

In summary, higher investment grade ratings (unsecured ratings in
the A- or A category, and equivalent Moody's ratings of A3 or A2) provide
greater financial flexibility and access to debt capital at all times in the
market cycle, even in distressed markets. Conversely, lower unsecured
ratings in the range of BBB to BBB- (or Baa2 to Baa3) can put a utility in
circumstances of reduced access to funding and at risk of loss of liquidity in
the event of a credit downgrade or market stress occurrence.

14

IV. EFFECTS OF FINANCIAL LEVERAGE

15 Q. IS A COMPANY'S CAPITAL STRUCTURE A MAJOR DETERMINANT OF
16 THE COMPANY'S FINANCIAL RISK AND ITS FINANCIAL STRENGTH?

A. Yes, it is. When there is more equity as a proportion of total capital, there
is a smaller proportion of debt. All other things being equal, more equity
capital in the capital structure and a lower proportion of debt will improve a
company's financial resilience and its ability to maintain solvency despite
adverse circumstances. Regarding the concept of financial risk, Dr. Roger
Morin explains:

23 Financial risk stems from the method used by the company to 24 finance its investments and is reflected in its capital structure. It refers to the additional volatility imparted to income available 25 26 to common shareholders by the employment of fixed cost 27 financing, that is, debt and preferred capital. Although the use 28 of fixed-cost capital can offer financial advantages through the 29 possibility of leverage of earnings (financial leverage), it creates additional risk due to the fixed contractual obligations 30 31 associated with such capital. Debt and preferred stock carry fixed charge burdens that must be supported by the 32 company's earnings before any return can be made available 33

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1to the common shareholder. The greater the proportion of2fixed charges to the total income of the company, the greater3the financial risk.⁶

Q. FROM THE PASSAGE CITED ABOVE, IT MAY SEEM THAT FINANCIAL
RISK DUE TO A GREATER PROPORTION OF DEBT FINANCING IN THE
CAPITAL STRUCTURE AFFECTS ONLY COMMON SHAREHOLDERS.
IS THAT THE CASE?

A. No. A greater proportion of debt (and correspondingly lower proportion of equity) in the capital structure increases not only shareholders' financial risk due to the increased volatility of earnings, but it also raises the financial risk of all lenders, bondholders, and trade creditors through the increased risk of default. Dr. Morin expresses the result of financial leverage as follows:
"[m]ore generally, a financial risk premium is required by both bondholders
and common shareholders."⁷

There are also implications for utility customers. In my professional 15 experience, public utilities with greater financial leverage and heightened 16 17 default risk typically are less able to fund investments in their network, leading to lower levels of reliability and customer service. In summary, 18 19 funding the utility with a greater proportion of debt capital and a lower 20 proportion of equity capital increases financial risk for shareholders, 21 bondholders, lenders, and trade creditors, while increasing reliability and 22 service quality risk for utility consumers.

23 Q. HOW DO THE COMMISSION'S ORDERS AFFECT ONCOR'S CAPITAL24 STRUCTURE?

A. On October 13, 2017, at the conclusion of Docket No. 46957, the
Commission authorized a capital structure for Oncor comprised of long-term
debt at 57.5% and equity at 42.5%. That limits the amount of common

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 ⁶ Morin, Roger A. Ph. D., *New Regulatory Finance*, Public Utility Reports, Inc., 2006, 45-46.
 ⁷ Ibid., 47.

1 shareholder equity upon which the Company may earn its authorized return on equity to 42.5% of total long-term capital.⁸ Also, Oncor is subject to a 2 3 Debt-to-Equity Ratio Commitment that limits Oncor's debt to total capital as follows: 4 5 Oncor's debt-to-equity ratio as determined by the Commission shall at all times remain in compliance with the debt-to-equity 6 ratio established from time to time by the Commission for 7 ratemaking purposes.9 8 9 Taking these two considerations together, the Commission's orders set very 10 firm guideposts for Oncor's capital structure. Oncor must not have equity 11 capital less than 42.5% of capital because if it did so, its debt would exceed 12 57.5% of capital and thus violate the commitment cited above regarding the 13 debt limit. On the other hand, the Commission has approved rates that do 14 not provide Oncor any return upon equity in excess of 42.5% of total capital. 15 Although Oncor is theoretically free to boost its equity above 42.5%, if it 16 continued that position for any sustained period without earning a return on 17 capital, it would be an inequitable burden upon Oncor's investors. Those 18 investors are unlikely to offer their capital for the benefit of customers 19 without any possibility of return. 20 Q. ONCOR'S CURRENT REGULATORY CAPITAL STRUCTURE IS COMMON AMONG ELECTRIC UTILITY COMPANIES OPERATING IN 21 THE UNITED STATES? 22 23 Α. No, not at all. Over the past several decades, regulatory capital structures 24 for investor-owned operating utilities in the U.S. are generally close to 50% 25 equity and 50% debt. In fact, in regulatory decisions for investor-owned 26 electric utilities over the past two to three years, a maximum equity

⁸ In the calculation of the authorized equity upon which the Commission-authorized return on equity is based, Oncor's equity is reduced by excluding \$676 million of goodwill related to merger accounting for the InfraREIT acquisition pursuant to Commission order in Docket No. 48929.

⁹ Docket No. 47675, Order (Mar. 8, 2018) at Finding of Fact No. 56.

1 component limited to 42.5% of total capital is well below the norm. As Oncor 2 witness Mr. Dylan W. D'Ascendis indicates in his direct testimony and З workpapers, the common equity-to-capital ratios of the operating utilities 4 that are owned by the 14 companies in his proxy group average 5 approximately 50.7% of capital; the median equity-to-capital ratio of that group of operating utilities is 51.2%; that is, half the companies have equity 6 7 ratios greater than the median of 51.2%. Among those utility companies, 8 87% have equity-to-capital ratios greater than 45%. The average and 9 median equity ratios of the utilities in Mr. D'Ascendis' proxy group are 10 consistent with my observations of the operating utilities in the U.S. investor-11 owned electric utility sector over the past several decades as well as at the 12 current time.

13 Q. HOW DOES ONCOR'S AUTHORIZED REGULATORY CAPITAL
14 STRUCTURE AFFECT ITS FINANCIAL STRENGTH AS ASSESSED BY
15 CREDIT RATING AGENCIES?

16 Α. All three major CRAs use financial leverage as a key factor in evaluating 17 financial strength. Each of the CRAs publishes its rating criteria specifying 18 the "benchmark" financial ratios that the agency considers in its analysis of 19 a utility's financial strength or financial risk. Although each rating agency has slightly different financial benchmarks and uses its own terminology to 20 21 describe its benchmark ratios, a common element across all three agencies 22 is that lower financial leverage is associated with stronger credit ratings and 23 higher financial leverage is associated with lower credit ratings.

24 Q. HOW DO RATING AGENCIES QUANTIFY FINANCIAL LEVERAGE?

A. All three agencies have preferred measures of financial leverage that
 compare a measure of operating cash flow in relation to total debt. These
 metrics are identified as the key or core financial credit ratios and are
 important benchmarks in the credit rating process. For convenience, I refer
 to these ratios as "Key Cash Flow Leverage Metrics." In these benchmark

1		ratios, either the numerator or the denominator is total debt (or total adjusted
2		debt). The Key Cash Flow Leverage Metrics may differ among the agencies
3		as total debt is adjusted by each CRA according to its own published
4		methodologies, such that leases, unfunded pension or post-retirement
5		benefits, or other off-balance sheet obligations may be added to debt. Since
6		there are small differences among the methods employed by three CRAs,
7		it is preferable to deal with each one individually.
8	Q.	HOW DOES S&P INCORPORATE FINANCIAL LEVERAGE AND CAPITAL
9		STRUCTURE IN ITS RATING DECISIONS?
10	Α.	S&P explains in its corporate rating criteria (applicable to U.S. investor-
11		owned electric utilities, including Oncor) that capital structure and financial
12		leverage are major components in its credit rating assessments. S&P's
13		fundamental measures of a company's financial risk are two alternate cash
14		flow measures of financial leverage, and these form a major part of the
15		Issuer Credit Rating that S&P assigns to the company:
16 17 18 20 21 22 23 24 25		The financial risk profile is the outcome of decisions that management makes in the context of its business risk profile and its financial risk tolerances. This includes decisions about the manner in which management seeks funding for the company and how it constructs its balance sheet. It also reflects the relationship of the cash flows the organization can achieve, given its business risk profile, to the company's financial obligations. The criteria use cash flow / leverage analysis to determine a corporate issuer's financial risk profile assessment. ¹⁰
26		For S&P, the two alternate metrics that its analysts consider as the
27		core indicators of financial leverage are: first, the ratio of Funds From
28		Operations ("FFO") to Debt, and second, the ratio of Debt to Earnings
29		Before Interest, Income Tax, Depreciation, and Amortization ("EBITDA").

¹⁰ Ex. EL-3 - Standard & Poor's, *"Criteria: General: Corporate Methodology*", Nov. 19, 2013, Para. 5.

1 The measure that S&P calls "FFO" is actually a variant of EBITDA.¹¹ Since 2 debt is the denominator of one ratio and the numerator of the second ratio, 3 adopting Oncor's recommended capital structure and lowering its debt to 4 55% of capital from 57.5% would improve both of those ratios, indicating 5 reduced financial leverage. In other words, the Company will have more 6 FFO to Debt and Debt will be a smaller portion of Earnings.

7 Q. DOES MOODY'S FOLLOW THE SAME METHODOLOGY FOR8 ASSESSING FINANCIAL STRENGTH AS S&P?

9 Not exactly. Moody's approach is not identical to that of S&P, but Moody's Α. 10 has similar benchmark ratios for financial leverage. Like S&P and Fitch, 11 Moody's puts a great reliance on ratios that utilize a measure of cash flow 12 in relationship to total debt. Moody's places 40% of the total weight of its rating analysis on four quantitative measures of financial strength.¹² Three 13 14 of the four ratios are based upon a metric of operating cash flow that 15 Moody's calls Cash Flow from Operations before Changes in Working Capital ("CFO pre-WC"). Of the four ratios, the most important financial 16 17 ratio in Moody's analysis is CFO pre-WC divided by Total Debt. The other cash flow ratios Moody's applies are CFO pre-WC less Dividends divided 18 19 by Total Debt and CFO pre-WC divided by Interest Expense. As a fourth measure, Moody's also considers the balance sheet ratio of Debt to Total 20 21 Capital.

Since all four of Moody's four ratios have Debt (or a metric tied to
Debt) as either their denominator or numerator, lowering Oncor's authorized
debt to 55% of capital from 57.5% would enhance its Key Cash Flow

¹¹ Standard & Poor's, ibid., Para. 12.

¹² In addition, Moody's places a 25% weight on Regulatory Framework, 25% on Ability to Recover Costs and Earn Returns, and 10% on Diversification. See Ex. EL-4 - Moody's Investors Service, *"Ratings Methodology: Regulated Electric and Gas Utilities"*, June 23, 2017, page 4.

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measure of FFO.

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EBITDA, which is also S&P's second financial ratio. Since debt is the denominator of one Fitch ratio and the numerator of the second Fitch ratio, adopting Oncor's requested capital structure and lowering debt to 55% of capital from 57.5% would enhance both of those ratios.

¹³ See Ex. EL-5 - Fitch Ratings, "U.S. Utilities Power & Gas: Ratings Navigator Companion", Feb.

¹⁴ Despite having the same acronym, S&P's FFO and Fitch's FFO are not the same. S&P calls by the name FFO a number derived from income statement figures that is akin to EBITDA. The source of Fitch's FFO measure is data taken from the Statement of Cash Flow, which is net of interest expense. Aside from that difference, each agency makes its own adjustments to arrive at its

In a manner similar to S&P and Moody's, Fitch identifies cash flowbased leverage measures as its principal indicators of financial strength. Fitch's first measure is a ratio of Funds from Operations ("FFO") divided by Total Debt;¹⁴ its alternate metric is the ratio of Total Debt to EBITDA. What

have the ability to, "manage periods of volatility without eroding credit quality. The more conservatively capitalized an issuer, the greater its financial flexibility... [and] the better able to cope with unexpected events."¹³ By "conservatively capitalized," Fitch means utilizing more equity and

3 Q. DOES FITCH RATINGS PLACE A SIMILAR EMPHASIS ON FINANCIAL
4 STRENGTH AND FINANCIAL LEVERAGE METRICS IN ITS RATINGS
5 ANALYSIS?

agencies and fixed income investors.

commensurately less debt.

REDACTED VERSION

Leverage Metrics and improve Oncor's financial status with credit rating

Yes. Fitch states that companies with superior financial characteristics

Fitch calls FFO is really the same as Moody's CFO before Working Capital,

so Fitch's ratio of FFO to Total Debt and Moody's ratio of CFO pre-WC to Total Debt are virtually the same. Fitch's second ratio is Total Debt to

- 19 –

1		V. <u>CAPITAL STRUCTURE</u>
2	Q.	WHAT IS ONCOR'S REGULATORY CAPITAL STRUCTURE AS OF
З		DECEMBER 31, 2021?
4	Α.	Oncor's regulatory capital structure as of December 31, 2021, consists of
5		common equity of approximately 45% of the Company's long-term capital
6		with the remaining 55% of regulatory capital being long-term debt.
7	Q.	HOW DOES ONCOR'S CAPITAL STRUCTURE COMPARE WITH THE
8		REGULATORY CAPITAL AUTHORIZED BY THE COMMISSION IN THE
9		LAST FULL RATE PROCEEDING IN 2017?
10	Α.	Oncor's current capital structure contains more equity and less debt than
11		the Company's authorized regulatory capital structure. In the third and
12		fourth quarters of 2021 immediately prior to December 21, 2021, Oncor's
13		equity and long-term debt closely approximated the authorized 42.5%
14		equity to 57.5% long-term debt ratios authorized by the Commission at the
15		completion of Docket No. 46597 in September 2017. On December 21 and
16		22, 2021, Oncor paid down \$450 million of debt with the proceeds of \$450
17		million of additional equity invested by Oncor's owners. These transactions
18		had the effect of raising Oncor's equity ratio and reducing debt leverage.
19	Q.	WHY WOULD ONCOR'S OWNERS INVEST \$450 MILLION OF
20		ADDITIONAL EQUITY BEYOND THE EQUITY AUTHORIZED BY THE
21		COMMISSION FOR COMPENSATION IN RATES?
22	Α.	My understanding is that the owners' intent was to demonstrate that their
23		request for a 45% equity and 55% debt capital structure in this rate
24		application is backed up by a solid and credible commitment to provide
25		equity investment at that level, and that the owners have the resources to
26		follow through. However, in my professional experience, it would be
27		unreasonable and economically unsustainable for the investors to persist in
28		investing excess equity capital in the Company over and above the level

that is used to formulate Oncor's transmission and distribution revenue
 requirements.

3 Q. DID ONCOR'S OWNERS MAKE A SIMILAR INVESTMENT OF EQUITY4 CAPITAL IN DECEMBER 2020?

5 Α. Yes. In December 2020, intending to demonstrate their willingness and ability to increase Oncor's equity capital, the Company's owners made 6 7 equity infusions in the amount of \$431 million on December 22-23, 2020, 8 and the Company used the proceeds to reduce debt of a similar amount. 9 However, in May 2021, the Commission approved a request to extend the rate filing deadline to June 1, 2022. Subsequently, in July 2021 Oncor 10 returned the \$431 million of excess equity capital as a distribution to its 11 12 owners and increased debt by a similar amount to bring the regulatory capital structure back to the approximate level of 42.5% equity and 57.5% 13 long-term debt that conforms to the Commission's authorized capital 14 15 structure.¹⁵ The 42.5%/57.5% capital structure prevailed for most of the third and fourth quarters of 2021, until an infusion of \$450 million of 16 additional equity and reduction of debt in December 2021. The investments 17 of equity in late December of 2020 and 2021 were in addition to other 18 regular ongoing equity investments during the course of those years that 19 20 the owners made to keep the capital structure in balance as the capital 21 spending budget required additional financing with external capital.

Q. HOW DO EXCESS EQUITY INVESTMENTS IN ONCOR AND DEBT
 REDUCTIONS AT THE END OF 2020 AND 2021 AFFECT THE
 CALCULATION OF ONCOR'S CREDIT RATING METRICS?

A. Credit ratios as calculated by the three major CRAs in their reviews in mid2021 were based on the 2020 financial statements, which incorporated the
reported December 31, 2020 debt (reduced) and equity (enhanced) due to

PUC Docket No. _____

¹⁵ For convenience, I will refer to these two special injections of equity in 2020 and 2021 as "excess" because they result in equity balances that exceed the 42.5% Commission-authorized regulatory capital structure.