Application of San Diego Gas & Electric Company (U 902 E) for Authority to Update Marginal Costs, Cost Allocation, and Electric Rate Design.

Application: 23-01-008 Exhibit No.:

CHAPTER 1

<u>REVISED</u> PREPARED DIRECT TESTIMONY OF

ADAM PIERCESAMANTHA PATE

ON BEHALF OF SAN DIEGO GAS & ELECTRIC COMPANY

BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

January 17, 2023September 29, 2023



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I. INTRODUCTION

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5	This General Rate Case (GRC) Phase 2 Application presents San Diego Gas & Electric
6	Company's (SDG&E) electric revenue allocation and rate design proposals associated with the
7	implementation of SDG&E's test year (TY) 2024 GRC Phase 1 electric revenue requirement.
8	The testimony supporting the Application presents SDG&E's marginal cost studies, revenue
9	allocation, and rate design.
10	This testimony adopts the prepared direct testimony of Adam Pierce supporting
11	SDG&E's 2024 GRC Phase 2 Application. The purpose of my revised prepared direct testimony
12	is to discuss the overarching policy framework that guides SDG&E's proposals for revenue
13	allocation and rate design. This Application covers the years 2024-2027.
14	My testimony is organized as follows:
15	• Section II – Overview of SDG&E's TY 2024 GRC Phase 2 Application
16 17 18	• Section III – SDG&E's Policy Objectives and Rate Design Proposals Seek to Balance the California Public Utilities Commission's (Commission's or CPUC) Rate Design Policy Objectives
19	• Section IV – Revenue Allocations
20 21	• Section V – Updated Standard Base Time-of-Use (TOU) Periods, Customer Transition, and Customer Education
22	• Section VI – Current TOU Differentials Should Be Maintained
23	• Section VII – Medium Commercial Customer Class Proposal and Applicability
24 25	• Section VIII – Proposal to Update <u>Seasonality Component, Schedule EV-TOU-5</u> , <u>and-</u> Medical Baseline Discount Methodology <u>for Residential Customers</u>
26 27	• Section IX – Proposal to Assess Critical Peak Pricing (CPP) Periods Less Frequently

1	• Section X – Additional Compliance Requirements
2	• Section XI – Implementation Timing
3	• Section XII – Witness Qualifications
4	II. OVERVIEW OF SDG&E'S TY 2024 GRC PHASE 2 APPLICATION
5	This Application includes the traditional elements of a GRC Phase 2 – cost allocation and
6	rate design – as well as specific requirements identified within various Commission decisions
7	and directives, including but not limited to Decision (D.) 21-07-010 (2019 GRC Phase 2
8	Decision) and D.17-01-006, (TOU Policy Decision). SDG&E is proposing the following:
9 10	• Limited changes to residential rate design, ¹ as significant residential rate reform is being considered concurrently in Rulemaking (R.) 22-07-005;
11 12 13	• Update base TOU periods to extend weekday super-off-peak hours of 10 AM – 2 PM year-round (currently offered in March and April only) for all customer classes;
14 15 16 17	• Maintain SDG&E's current TOU differentials given the lack of observable market data supporting a drastic change and continue alignment with current Commission policy, except as needed to accommodate SDG&E's proposal for residential tiered rate seasonality;
18 19	• Split the current Medium/Large Commercial & Industrial (M/L C&I) customer class into two customer classes: Medium Commercial and Large C&I
20 21	• Use the System Average Percent Change (SAPC) revenue allocation methodology to develop rates for certain rate components;
22 23 24	• Maintain current revenue allocation methodologies for the Public Purpose Programs (PPP) rate components, except updated allocations based on more recent data for the Energy Efficiency component;
25 26	• Evaluate CPP periods less frequently, as changes require significant customer education and outreach;
	⁴ -In this Application, SDG&E is proposing to update its TOU periods for all customer classes, including residential customers, and to update the residential Medical Baseline program's discount methodology.

SDG&E is proposing these changes here as it does not anticipate these items will be addressed or otherwise impacted by R. 22-07-005.

1 2 3 4 5	• <u>Move the rate mechanism for moderating seasonal bill volatility from the delivery</u> rate to the commodity rate for tiered residential rates, adjust the super off-peak volumetric distribution rate for Residential Schedule EV-TOU-5, and Uupdate the Medical Baseline discount to a line-item discount for both tiered and non-tiered rates; and
6 7	• Propose m Miscellaneous updates to rate design and tariffs that will provide greater clarification to SDG&E customers.
8	Because significant changes to residential rate design are being concurrently addressed in
9	the Rulemaking to Advance Demand Flexibility Through Electric Rates (R.22-07-005) (Demand
10	Flexibility Rulemaking), SDG&E is proposeding limited changes to residential rate design in this
11	its original 2024 GRC Phase 2 applicationproceeding the original testimony served in this
12	proceeding on January 17, 2023. ² Since that time, the scope of the Demand Flexibility
13	Rulemaking has been clarified and issues that SDG&E believed would be addressed in the
14	Demand Flexibility Rulemaking have been deemed out of scope. Accordingly, in addition to
15	updating its testimony to reflect the 2023 sales forecast, SDG&E has further updated its
16	testimony to include two additional residential rate design proposals, as described in the
17	Supplemental Testimony of SDG&E witness Utama. First, SDG&E is proposing to move the
18	adjustment mechanism that moderates seasonal bill volatility in residential tiered rates from the
19	delivery rate (i.e., UDC rate) to the commodity rate (i.e., EECC rate), which will achieve
20	consistency in seasonality rate design between tiered and untiered residential rates. Second,
21	SDG&E is proposing to adjust the super off-peak period volumetric distribution rate for
22	Schedule EV-TOU-5, in order to reflect marginal cost-based rates. SDG&E believes that
23	consideration of residential rate design proposals within its GRC Phase 2 would unnecessarily
24	increase the burden on SDG&E, the Commission, and other Intervenors, and could result in
25	conflicting decisions from the Commission.

² A.23-01-008.

1	Additionally, SDG&E is proposing to maintain the TOU differentials in its current
2	effective commodity rates for all customer classes, except as needed to accommodate SDG&E's
3	proposal for residential tiered rate seasonalitySDG&E's marginal commodity cost study, as
4	shown in the revised prepared direct testimony of SDG&E witness Jeff DeTuri (Chapter 5),
5	forecasts that the TOU differentials from a purely forecasted, cost-based perspective, for 2024
6	and 2027, will be significantly lower than the current TOU differentials, particularly in the
7	summer monthsHowever, as discussed below, SDG&E believes that it is premature to
8	significantly decrease TOU differentials (e.g., the difference between the on-peak period and
9	super off-peak period price) based solely on forecasts at this time.
10	Pursuant to D.17-08-030, SDG&E is required to file an annual Tier 2 Advice Letter (AL)
11	that updates the critical event period based on a loss of load analysis. ³ However, in the interest
12	of customer understanding, education, and the significance of a change in the CPP period,
13	SDG&E is proposing to eliminate this compliance requirement and evaluate its CPP event period
14	in every GRC Phase 2 starting with the subsequent GRC cycle.
15	The Application is further supported by the following testimony:
16 17 18	• <u>Chapter 2 (Ray C. Utama)</u> : Presents SDG&E's updated electric revenue allocation and proposals for changes to revenue allocations, as well as revenue allocation compliance requirements.
19 20 21 22	• Chapter 3 (Ray C. Utama, Erica Wissman, Hannah Campi, and Gwendolyn MorienEvelyn Luna): Presents SDG&E's proposals to update rates to reflect proposed TOU periods, revenue allocations, electric rate design, and illustrative bill impacts to support those proposals, including:
23 24 25	• Update to the current Residential Medical Baseline methodology and expansion of a Medical Baseline Program Discount to non-tiered residential rates;

³____D.17-08-030, Ordering Paragraph (OP) 32 at 92.

1 2			• Movement toward more cost-based rates for non-residential customers, including increases to existing monthly service fees; and
3 4 5			• Division of the current M/L C&I customer class into a Medium Commercial customer class and a Large C&I customer class and illustrative rates.
6 7 8		•	<u>Chapter 4 (William G. Saxe)</u> : Presents SDG&E's proposed distribution marginal costs (both customer costs and demand costs) and the cost basis for distribution revenue allocation.
9 10 11 12 13		•	<u>Chapter 5 (Jeff DeTuri)</u> : Presents SDG&E's commodity marginal cost, including both energy costs and generation capacity costs, the cost-based commodity and Competition Transition Charge (CTC) revenue allocations, and data to support SDG&E's current TOU periods, as well as the deadband tolerance analysis required in each GRC Phase 2 Application. ⁴
14 15		•	<u>Chapter 6 (William G. Saxe)</u> : Presents SDG&E's Street Lighting cost studies and associated rate design proposals.
16 17 18		•	<u>Chapter 7 (Jeff Nightingale</u>): Describes the process for converting Schedule OL- 1 lamps to Light Emitting Diode (LED) technology, including the costs for completing these conversions.
19		•	Chapter 8 (Evelyn Luna): Proposes miscellaneous tariff and rate design changes.
20 21		•	<u>Chapter 9 (Rachelle Baez)</u> : Presents Affordability Metrics as required by D.22-08-023.
22 23		•	Supplemental Testimony (Ray Utama): Presents residential rate design proposals for seasonality and Schedule EV-TOU-5.
24 25	III.	SDG& BALA	E'S POLICY OBJECTIVES AND RATE DESIGN PROPOSALS SEEK TO NCE THE COMMISSION'S RATE DESIGN POLICY OBJECTIVES
26		SDG&	E continues to be a leader in providing clean energy and advancing technology, all
27	while	providir	ng safe and reliable service. SDG&E's accomplishments include:
28		•	Recognized leader for its wildfire safety and mitigation efforts;

⁴ ___SDG&E's proposed deadband tolerance methodology was approved with modifications in Resolution E-4948 on November 29, 2018. SDG&E subsequently filed Advice Letter AL 3064-E-A on January 1, 2019, which was approved and became effective as of January 2, 2019.

1 2	• Procuring approximately fifty-five-nine percent of its power from renewable resources; ⁵
3 4	• Integrating over <u>1,82,0</u> 00 megawatts (MW) of customer-sited solar from over <u>250277</u> ,000 customers; ⁶
5 6 7 8 9	• Serving ~93,500121,000 plug-in electric vehicles within its service territory, making clean driving more accessible with several programs available to customers including the Power-Your-Drive program, and expanding access to electric vehicle charging at businesses, multi-family communities, and disadvantaged neighborhoods; and
10 11 12	• Receiving the 2021 National Reliability Award, the 2022 Outstanding Grid Reliability Award, as well as receiving the "Best in the West" award for electric reliability for 17 straight years. ⁷
13	Despite significant progress in these areas, rate design has not evolved alongside a
14	rapidly changing energy marketplace, and this disconnect represents a potential barrier for
15	customer technology adoption and customer choice. SDG&E commends the Commission for
16	addressing demand flexibility and revisions to residential rate design, as well as considering
17	adopting revised updated rate design principles (RDPs) and considering demand flexibility rates
18	more broadly in the Demand Flexibility Rulemaking. ⁸ However, acknowledging that these two
19	proceedings will be ongoing concurrently, SDG&E's proposals in this Application are intended
20	to avoid conflicting decisions and duplicative work that would occur if residential rate design
21	was considered in this proceeding. To help ensure the continued pursuit of the state's clean
22	energy goals in a sustainable manner, it is critical to move toward rates that reflect accurate
23	prices to help incentivize customer behavior, and, if necessary for policy reasons, provide
24	incentives or subsidies that are direct and transparent.

⁵ _____R.18-07-003, SDG&E's Draft <u>2022-2023</u> Renewable Portfolio Standard Procurement Plan – Public Version (July 17, <u>20222023</u>) at 3 (SDG&E's procured <u>5559</u>% of its power from renewable resources in <u>20212022</u>).

⁶ <u>2022-2023</u> estimates from California Distributed Generation Statistics, available at <u>https://www.californiadgstats.ca.gov/charts/</u>.

⁷ PA Consulting ReliabilityOneTM Awards.

⁸ See generally R.22-07-005.

Importantly, SDG&E continues to supports the updated RDPs adopted by the

2 Commission in Order Instituting Rulemaking <u>12-06-01322-07-005</u>, which are presented below in

Table SP-1.⁹ The Commission is currently considering changes to modernize the current RDPs

4 in R.22-07-005; however, given that no changes have been adopted at the time of this

5 Application, SDG&E's proposals in this application balance these current-updated rate design

6 principles.

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Figure APSP-1: Rate Design Principles⁴⁰

D.23-04-040 Cost Of Service RDPs
(1) All residential customers (including low-income customers and those who receive a
medical baseline or discount) should have access to enough electricity to ensure that their
essential needs are met at an affordable cost.
(2) Rates should be based on marginal cost.;
(3) Rates should be based on cost-causation principles.;
(4) Rates should encourage economically efficient (i) use of energy, (ii) reduction of greenhouse gas emissions, and (iii) electrification.
(5) Rates should encourage customer behaviors that improve electric system reliability in an economically efficient manner.
(6) Rates should encourage customer behaviors that optimize the use of existing grid infrastructure to reduce long-term electric system costs.
(7) Customers should be able to understand their rates and rate incentives and should have options to manage their bills.
(78) Rates should-generally avoid cross-subsidies that do not , unless the cross- subsidies transparently and appropriately support explicit state policy goals.;
 (8) Incentives should be explicit and transparent; (9) Rates should encourage economically efficient decision making.design should not be technology-specific and should avoid creating unintended cost-shifts.
(10) Transitions to new rate structures should (i) include customer education and outreach that enhances customer understanding and acceptance of new rates, and (ii) minimize or

appropriately consider the bill impacts associated with such transitions.

⁹ See D.23-04-040.

Although these principles were adopted in a residential rate design proceeding, the Commission recently stated when closing R.13-11-007 and opening R.18-12-006 that "they are also applicable and should be followed for designing new commercial rates." R.18-12-006, Order Instituting Rulemaking to Continue the Development of Rates and Infrastructure for Vehicle Electrification (December 13, 2018) at 17, n.23.

1	SDG&E continues to advocate for movement towards more cost-based rates as outlined
2	by the RDPs in Figure APSP-1 above. In addition, SDG&E recognizes the importance of
3	ensuring balance of all the Commission's RDPs. SDG&E in this Application is seeking to
4	continue to move forward with more cost-based rates with the rate design proposal, discussed in
5	the <u>revised</u> prepared direct testimony of SDG&E witnesses Ray C. Utama, Erica Wissman,
6	Hannah Campi, and Gwendolyn MorienEvelyn Luna (Chapter 3) to increase certain existing
7	Monthly Service Fees (MSF) of the Small Commercial, proposed Medium Commercial, Large
8	C&I, and Agricultural customer classes for the years 2024-2027. SDG&E's proposals to
9	increase current MSFs result in offsetting decreases to other rate components, helping reduce bill
10	volatility for customers, and providing rates more closely based on marginal cost (RDP 2) and
11	cost-causation principles (RDP 3). In addition, SDG&E's proposal to continue use of the
12	revenue allocation SAPC methodology for certain rate components is intended to provide
13	customers with greater rate stability. Further, SDG&E's proposal to divide the current M/L C&I
14	class into a Medium Commercial customer class and Large C&I customer class will provide
15	"Medium" and "Large" commercial customers with rates more closely based on their cost of
16	service (RDP 3). SDG&E's proposals in Supplemental Testimony (witness Utama) will improve
17	customer understanding by providing consistent summer and winter delivery rates (RDP 7) and
18	reduce technology-specific non-transparent cost shifts (RDPs 8 and 9). Finally, SDG&E's
19	proposal to extend the super off-peak TOU period from 10am to 2pm year-round will also
20	improve customer understanding by providing consistent TOU periods year-round (RDP 7), and
21	will encourage economically efficient consumption during low-cost daytime hours, when
22	renewable resources are more available and greenhouse gas (GHG) emissions are lower (RDP 4).

A. Lower Volumetric Rates are Needed to Incentivize Electrification

2	California is moving toward electrification of homes and buildings, a necessary step to
3	reduce harmful greenhouse gases (GHGs) and other emissions to help meet the state's collective
4	climate goals. However, the current residential rate design structure is misaligned with the
5	state's goals, as nearly all costs are recovered in volumetric energy rates. In order to incentivize
6	broad electrification from all customers, including non-residential customers, it is important to
7	reduce volumetric rates. and For its residential customers, SDG&E is proposing to reduce
8	volumetric rates do this by recovering more costs in a monthly fixed rate component. The
9	Commission will decide the issue of income-based fixed charges for default, and potentially all,
10	residential rate schedules in accordance with Assembly Bill 205 in the ongoing Demand
11	Flexibility Rulemaking. ¹¹ SDG&E is hopeful that the Commission will establish an income-
12	based fixed charge for all residential rates that meaningfully lowers volumetric rates and
13	prevents certain customers from rate arbitrage.
14	SDG&E's revised testimony herein reflects developments that have occurred in the
15	Demand Flexibility Rulemaking. Since SDG&E filed this application on January 17, 2023, the
16	Commission has more clearly defined the scope of Track A of the Demand Flexibility
17	Rulemaking, which is considering income-graduated fixed charges for residential rates.
18	Specifically, the Commission determined that TOU rate design was beyond the scope of Track
19	<u>A.¹² A scoping memo and ruling was recently issued in the Demand Flexibility Rulemaking,</u>
20	where the Commission will decide the issue of income-based fixed charges for default, and
21	potentially all, residential rate schedules in accordance with Assembly Bill 205. ¹³ -Two scoping

¹¹ See R.22-07-005.

¹² See, R.22-07-005, Phase 1 Track A: Income Graduated Fixed Charge Guidance Memo (January 17, 2023) at 4-<u>5.</u>

1	items in Track A, which will address the income-based fixed charge, ask (1) whether the
2	Commission should "establish an income-graduated fixed charge for all residential rates or only
3	certain residential rates;" and (2) "[h]ow the fixed charge should vary between default residential
4	rates and non-default residential rates[.]"14 Additionally, the recent Commission decision
5	adopting a successor to the current Net Energy Metering (NEM) 2.0 Tariff stated that the
6	Commission considers the Demand Flexibility Rulemaking to be "a more appropriate venue to
7	consider the issue of an income-graduated fixed charge applicable to all customers, which will
8	include NEM 1.0 and NEM 2.0 customers." ¹⁵ As stated by SDG&E early in the Demand
9	Flexibility Rulemaking proceeding, SDG&E is hopeful that the Commission will establish an
10	income-based fixed charge for all residential rates so as to prevent certain customers from rate
11	arbitrage. ¹⁶
12	Accordingly, in light of the ongoing parallel worknarrowed scope in the Demand
13	Flexibility Rulemaking, Track A, SDG&E is proposing limited changes to Residential customer
14	class rate design in this its supplemental testimony in the instant application Application. In
15	order to avoid conflicting proposals and workstreams, SDG&E plans to propose other changes to
16	residential rate design in R.22-07-005 as they will likely be impacted by the changes in that
17	proceedinglimits its proposed residential rate design changes in supplemental testimony to those
18	issues that are out of scope or are unlikely to be addressed in a decision resulting from R.22-07-
19	<u>005, Track A</u> . <u>Thus, In-in</u> this Application, SDG&E is proposing an update to TOU periods for
20	all customer classes, including residential, to move the rate adjustment mechanism that
21	moderates residential bill seasonality from the delivery rate to the commodity rate for its tiered

residential rates, to adjust the super-off peak rate for Schedule EV-TOU-5 to recover marginal
 costs, and an update to the Medical Baseline Program discount methodology and an expansion of
 the Medical Baseline Program Discount to non-tiered rates, as SDG&E does not anticipate these
 issues will be addressed in or otherwise impacted by the Demand Flexibility Rulemaking.

B.

Commission Policy & Recent Events Point to a Need for Strong Load-Shifting Incentives

SDG&E believes it is important for customers to receive price signals that incentivize changes in behavior that will benefit the electric grid and its customers. As discussed in Section VI, SDG&E is proposing to maintain its current TOU price differentials despite its commodity cost study, as presented in the <u>revised</u> prepared direct testimony of SDG&E witness Jeff DeTuri (Chapter 5), showing a significant decrease in the cost-based price differentials, particularly for summer months, for its TOU periods. Moderating the price differentials that customers see could result in a lower incentive for customers to shift usage outside the on-peak period. Making a drastic change based purely on current forecasts is of concern to SDG&E, especially given that the state has experienced heat events in recent years that have strained its power grid and its energy supply. It is in the interest of all involved parties – SDG&E, customers, the state, the Commission, and others – to avoid these types of events.

Strong price signals are one tool to incentivize customers to regularly shift their usage outside the peak period and support state policy objectives of reducing GHGs and increasing grid reliability. The Commission recently affirmed this policy in D.22-12-056, stating "[h]ighly differentiated time-of-use rates are closer to the energy prices required to run the grid" and "[h]ighly differentiated time-of-use rates encourage electrification and help California reach is greenhouse gas emissions reduction goals."¹⁷ Accordingly, SDG&E is proposing to maintain the

¹⁷ D.22-12-056, Findings of Fact 112 and 114 at 217-218.

current TOU differentials, as approved in its last GRC Phase 2, rather than update them based on the marginal commodity cost study presented in the <u>revised</u> prepared direct testimony of SDG&E witness Jeff DeTuri (Chapter 5).

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IV. REVENUE ALLOCATIONS

Consistent with current practice adopted in D.21-07-010, SDG&E is proposing to maintain use of the SAPC methodology when implementing new sales forecasts, as discussed in detail in the <u>revised</u> prepared direct testimony of SDG&E witness Ray C. Utama (Chapter 2). In line with (RDP 6) regardingproviding greater rate and bill stability, SDG&E believes continuing to use the SAPC methodology will help smooth out volatility in class average rate changes due to changes in sales caused by economic factors, technology adoption, and load departure.

11 Additionally, SDG&E is proposing to maintain the current revenue allocation methodologies for the PPP subcomponents, as adopted in D.21-07-010, with modification to 12 13 accommodate division of the current M/L C&I customer class into the Medium Commercial 14 class and Large C&I class. Further, as mMost PPP subcomponents are dependent on 15 Commission-adopted sales forecasts, which are updated annually viawhen a new sales forecast 16 adopted annually in SDG&E's Energy Resource Recovery Account (ERRA) Forecast Applications., A.22-05-025 filed May 31, 2022,¹⁸-SDG&E is proposing to continue the current 17 methodology to update its PPP rates annually via implementation advice letter. Updating PPP 18 19 subcomponents annually based on the most recently adopted sales forecast and latest PPP revenue requirements reflects the most up-to-date conditions and is the most equitable way to 20 minimize potential cost shifts between customer classes based on the current adopted revenue 21 allocation methodologies of the PPP subcomponents. 22

¹⁸— See, e.g., D.22-12-042 approving SDG&E's ERRA Forecast Application.

1	The only exception to SDG&E's proposal to maintain current treatment for PPP
2	components is SDG&E's proposal to update the revenue allocation factors for the Energy
3	Efficiency (EE) PPP subcomponentEE allocations are based on forecasted EE spending by
4	customer class, as approved in D.05-09-043, with the current allocations based on the 2019
5	forecasted program budget. ¹⁹ Consistent with past GRC Phase 2 applications, SDG&E is
6	proposing to update EE revenue allocation factors with the most recent-forecasted EE program
7	budget year 2022. Revenue allocation proposals are discussed in more detail in the revised
8	prepared direct testimony of SDG&E witness Ray C. Utama (Chapter 2).
9 10	V. UPDATED STANDARD BASE TIME-OF-USE (TOU) PERIODS, CUSTOMER TRANSITION, AND EDUCATION
11	SDG&E is required to analyze its Base TOU Periods with every GRC Phase 2 application
12	and propose new TOU periods if warranted. ²⁰ As described in the <u>revised</u> prepared direct
13	testimony of SDG&E witness Jeff DeTuri (Chapter 5), SDG&E evaluated its current TOU
14	periods using two methodologies: 1) a Loss of Load Expectation (LOLE) analysis; and 2) a
15	Deadband Tolerance analysis. ²¹ _The LOLE determines the probability of SDG&E not meeting
16	load in a given hour The results, which are described in more detail in the revised prepared
17	direct testimony of SDG&E witness Jeff DeTuri (Chapter 5), highlight a greater likelihood of
18	loss of load during SDG&E's current and proposed on-peak TOU period when using the same
19	assumptions as the Integrated Resource Plan (IRP). Additionally, SDG&E's Deadband
20	Tolerance analysis compares the top 100 hours with existing TOU periods to determine if a
21	certain percentage of hours fall outside the current On-Peak Period, and whether a percentage of
22	the bottom 100 hours fall outside the Super Off-Peak Period. All top 100 hours fall into

¹⁹ D.21-07-010 at 22.

²⁰

D.17-01-006, Appendix 1, Policy Guideline #6 at 2. The Deadband Tolerance methodology was approved in AL 3064-E/A. *See e.g.*, n.4, *supra*. 21

SDG&E's current and proposed On-Peak Period, and all bottom 100 hours occur during SDG&E's proposed Super Off-Peak Period. 2

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A. **Updated Standard Base TOU Periods**

The Commission has adopted general principles in respect to developing and implementing changes in Base TOU periods.²² For instance, Policy Guideline #5 of D.17-01-006, Appendix 1 states that "Base TOU periods should continue for a minimum of five years (unless [there are] material changes ... [that warrant a change], and each IOU should propose new Base TOU periods, if warranted, at least every two general rate case cycles."²³ Base TOU Periods should be developed using forward-looking data, with the forecast year set at least three years after the year the Base TOU Period will go into effect. Using TY 2024, SDG&E conducted its LOLE analysis on both 2024 and 2027 data to determine whether to update its Base TOU Periods.

Based on this analysis, SDG&E is proposing to update its existing standard TOU periods to include additional super-off-peak period hours. SDG&E is proposing to update its standard base TOU periods to: 1) better reflect cost-causation as shown in the marginal commodity cost study in the revised prepared direct testimony of SDG&E witness Jeff DeTuri (Chapter 5); 2) encourage customers to shift energy consumption to daytime hours when significant renewable generation is available, thereby helping reduce GHG emissions; and 3) provide more opportunities for customers to shift load into the Super Off-Peak period and manage their bills. Figure APSP-2 below displays SDG&E's proposed Base TOU periods.

See D.17-01-006, Appendix 1, Policy Guideline #5 at 1. 23 Id.

Weekday		Weekend	
Summer	Winter	Summer	Winter
4 – 9 PM	4 – 9 PM	4 – 9 PM	4 – 9 PM
All other hours	All other hours	All other hours	All other hours
$\frac{\text{Midnight} - 6 \text{ AM};}{10 \text{ AM} - 2 \text{ PM}}$	Midnight - 6 AM; $10 AM - 2 PM$	Midnight – 2 PM	Midnight – 2 PM
	Wee Summer 4 – 9 PM All other hours Midnight – 6 AM; 10 AM – 2 PM	WeekdaySummerWinter4 - 9 PM4 - 9 PMAll other hoursAll other hoursMidnight - 6 AM;Midnight - 6 AM;10 AM - 2 PM10 AM - 2 PM	WeekdayWeekdaySummerWinterSummer $4-9$ PM $4-9$ PM $4-9$ PM 41 other hoursAll other hoursAll other hoursMidnight - 6 AM; 10 AM - 2 PMMidnight - 2 PM

Figure APSP-2: SDG&E Proposed Base TOU Periods

SDG&E believes the addition-<u>extension</u> of these four super off-peak_<u>period</u> weekday hours during the middle of the day year-round will provide more opportunities for residential customers to shift their consumption to daytime hours when excess clean energy is typically available. Many businesses are still operating on a work-from-home or hybrid basis, meaning that individuals are home more often during the day and able to take advantage of these hours as compared to pre-pandemic. Encouraging customers to shift their consumption to the daytime, non-on-peak hours, will help benefit the system, customer bills, and <u>provide encourage</u> GHG emissions reduction.

Based on the LOLE analysis presented in the <u>revised</u> prepared direct testimony of SDG&E witness Jeff DeTuri (Chapter 5), a change to SDG&E's peak period is not warranted. The current on-peak period is 4 PM – 9 PM, year-round, weekdays and weekends/holidays. As shown in the <u>revised</u> prepared direct testimony of SDG&E witness Jeff DeTuri (Chapter 5), the forecasted data does not support a change to the on-peak period. Additionally, SDG&E believes that customers (especially residential customers) are still becoming familiar with and accustomed to TOU rates and the 4<u>PM</u>—9 PM on-peak period. Mass Residential Default TOU concluded in 2020 and included a massive statewide and service territory marketing and education campaign. Changing the on-peak period prematurely when the data does not support a change would incur unnecessary costs, confuse customers, and provide little benefit to the system.

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B. Customers Should Transition Immediately to New Standard TOU Periods

SDG&E believes that this proposed change to its Standard Base TOU Periods, which makes the current March/April TOU periods the year-round <u>the</u>standard, is more easily understood than potential other changes to TOU periods, such as changes to the on-peak period. The inclusion of additional super off-peak hours during the day, when residential customers may be at home, or many non-residential customers have business hours, is <u>likely</u> a benefit to those customers. <u>Customers</u>, especially residential customers working from home, will be able to shift their electricity consumption to mid-day when solar generation is plentiful, <u>therefore thereby</u> helping to reduce emissions.

SDG&E is proposing no legacy period for customers on current standard TOU periods.²⁴ While the Commission granted legacy periods for certain BTM solar customers on SDG&E's previous base TOU periods (pre-2017 TOU periods), the change experienced by those customers was significantly more drastic (<u>the</u> on-peak period <u>moving moved</u> from 11 AM – 6 PM to 4 PM – 9 PM).²⁵ Here, the proposed change to TOU periods does not include a change in the on-peak period, only the addition of four super off-peak period hours <u>during-on weekdays from</u> May – February-weekdays. Requiring a legacy TOU grace period for SDG&E's currently effective TOU periods, which could benefit current BTM solar customer by allowing them to stay on today's current effective TOU periods for a period of time after implementing the new TOU periods, would require SDG&E to have implement-two versions of legacy TOU periods

²⁴ Non-residential solar customers with legacy TOU periods are able to stay on their legacy TOU periods 10 years after interconnection (through December 31, 2027). See D.17-01-006, as modified by D.17-10-018, and D.17-08-030.

See D.17-01-006 at 56-65 (describing legacy TOU periods for solar customers but specifying on pages 56-57 that customers investing in solar and other on-site distributed energy resources should be aware that going forward the plan is to regularly review and update TOU periods and this information should be taken into account when making investment decisions).

<u>implemented</u> for customers <u>and bill customers on three different sets of TOU periods</u>, and which would serve to increase customer confusion, <u>ME&O</u>, and <u>billing costs</u>.

Additionally, for policy reasons, SDG&E does not believe that BTM solar customers 3 should receive special treatment and be allowed to stay on the current effective TOU periods 4 5 longer than non-solar customers. New residential NEM 2.0 customers in SDG&E's service 6 territory who completed an interconnection application before April 14, 2023, today enjoy simple paybacks of approximately three years,²⁶ and receive NEM treatment for 20 years.²⁷ The 7 newly adopted Net Billing Tariff (NBT) is estimated to provide SDG&E solar customers simple 8 paybacks in less than six years, well below the targeted nine-year payback of the decision.²⁸ 9 Additionally, because the NBT decision payback was calculated using a simple payback, it does 10 not take into account any rate increases that will occur in the future, which will increase NBT 11 customer bill savings. 12

In addition, SDG&E has significant excess solar generation during the middle of the day.

Today, nearly 2023% of SDG&E's residential customers are rooftop solar (net energy metering

or NEM or NBT) customers.^{29,30} NEM and NBT customers should be encouraged to consume or

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²⁶ Simple payback refers to the number of years required to recover initial investment. And see E3 study comparing NEM successor proposals as submitted by the parties in CPUC Rulemaking 20-08-020 to replace the existing NEM tariff, NEM 2.0. Study Title: Cost Effectiveness of NEM Successor Rate Proposals Under Rulemaking 20-08-020 (June 15, 2021) at 34 (, available at: https://www.cpuc.ca.gov/industries-and-topics/electrical-energy/demand-side-management/net-energy-metering/nem-revisit/net-billing-tariff (under Party Proposals).

 ²⁷ D.22-12-056 at 191 (stating that D.16-01-044 "established a legacy period of 20 years from the customer's interconnection as a reasonable period over which the customer should be eligible to continue taking service under NEM 2.0 tariff.").

²⁸ D.22-12-056 at 79.

²⁹ ~246272,000 residential NEM solar PV projects per 2022-2023 estimates from California Distributed Generation Statistics, available at https://www.californiadgstats.ca.gov/charts/. SDG&E has approximately 265296,000 residential NEM customers as of December 30, 2022August 31, 2023, and a total of approximately 1.3 million residential customers.

³⁰ Interconnected NBT customers are temporarily being billed on NEM 2.0 until SDG&E can implement the NBT in its billing system.

store their <u>daytime</u> generation onsite <u>during the day</u>, not export it to the grid where it contributes
 to curtailment of cheaper, utility-scale solar resources.³¹ <u>A lower super off-peak price during the</u>
 <u>day should incentivize NEM and NBT customers with paired batteries to store their self-</u>
 <u>generation and consume it later in the evening.</u> Therefore, it does not make sense to provide a

new legacy period to NEM or <u>NBT</u> customers on current standard TOU periods.

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Customer Marketing, Education & Outreach for Standard TOU Period Change

If SDG&E's request is approved, SDG&E will develop and deploy a robust marketing, education, and outreach (ME&O) plan to inform its bundled business and residential customers of the new opportunity to save on their energy bill and make better use of renewable energy sources when they are more available to the power grid. Because <u>the additional</u> super off-peak hours <u>during weekdays</u> are not a new concept to customers, SDG&E believes that marketing activities can be efficiently and effectively integrated into existing rate education activities that focus on when a customer uses energy and customer choice when it comes to pricing plan options.

ME&O activities would include, but are not limited to, leveraging a multi-channel strategy, including digital marketing, targeted email and/or direct mail, on-bill messaging, community partner content packets, talking points and collateral for customer-facing employees including Account Executives and Customer Care Center, social media, sdge.com and earned media when possible. SDG&E believes there is an opportunity to promote these lower-priced energy hours to customers who are not on a TOU plan or are on a TOU plan with only two

³¹ California ISO, Managing Oversupply, available at <u>http://www.caiso.com/informed/Pages/ManagingOversupply.aspx;</u> see e.g., California ISO, Fast Facts, Impacts of renewable energy on grid operations, available at <u>http://www.caiso.com/Documents/CurtailmentFastFacts.pdf</u>.

pricing periods as another pricing plan option for their consideration. Communications will
 consider the needs of specific customer segments, including low-income and in-language needs.
 SDG&E would exclude marketing to customers who take service with a Community Choice
 Aggregator in adherence with the applicable Code of Conduct.

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VI. CURRENT TOU DIFFERENTIALS SHOULD BE MAINTAINED

SDG&E is proposing to maintain its current TOU differentials for all customer classes.³² As stated previously, Figure <u>APSP</u>-3 below shows the current TOU differentials for SDG&E's default residential rate compared to the TOU differentials shown in SDG&E's 2024 commodity cost study. As shown below, using SDG&E's 2024 GRC Phase 2 Commodity Cost Study results in significantly more muted TOU differentials.

Figure APSP-3: SDG&E's June 1, 2022January 1, 2023, Effective Base Commodity Rates vs. Base Commodity Rates Using the 2024 Commodity Cost Study

			TOU-DR1	January 1, 2023	2024 Commodity Cost Study
			Base Commodity Rates	(¢/kWh)	(¢/kWh)
			Summer		
	T 1 2022	2024 Commodity	On-Peak	57.0	26.7
TOU-DRI	June 1, 2022	Cost Study	Off-Peak	25.6	12.1
Base Commodity Rates	(¢/kWh)	(¢/kWh)	Super Off-Peak	9.2	9,9
Summer	12.2	26.7	Winter		
Off-Peak	42.2	12.1	On-Peak	19.2	16.5
Super Off-Peak	6.8	9.9	Off-Peak	10.8	12.4
Winter		Suman Off Deals	0.0	10.5	
On-Peak	14.3	16.5	Super OII-Peak	8.3	10.5
Off-P cak	8.0	12.4			
Super Off-Peak	6.2	10.5	Summer Differentials:		
		On: Super Off-Peak	6.2	2.7	
Summ On: Super Off-Peak	6.2	2.7	On: Off-Peak	2.2	2.2
On: Off-Peak	2.2	2.2			
	•		Winter Differentials:		
Winter Differentials:		On: Super Off-Peak	2.3	1.6	
On: Super Off-Peak	2.3	1.6	On: Off-Peak	1.8	1.0
OII. OII-I Cak	1.0	1.3		1.0	1.5

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Because it is forecasted that there will be additional capacity resources added to

15 SDG&E's service territory by 2024, in accordance with the reliability procurement orders and

³²—As stated previously, SDG&E is not proposing any changes to residential rate design, which includes maintaining current TOU differentials.

concerns,³³ theoretically, SDG&E would have enough capacity in its service territory and would need less of a response from customers to shift load outside the on-peak period. This forecast is consistent with the Integrated Resources Plan (IRP). Many of the resources forecasted to come online are battery storage, meaning that they could provide capacity during the peak period, when costs are highest. Using these forecasted assumptions results in significantly lower "costbased" TOU differentials. However, this is a drastic change from current price differentials observed in the market. In 2020 and 2021, SDG&E observed extreme market price spikes in the peak hours relative to the off and super-off-peak hours. Figures APSP-4 and APSP-5 below show the average 2020 and 2021 summer and winter Default Load Aggregation Point (DLAP) prices for SDG&E compared to the forecasted 2024 summer and winter shapes.

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³³ See, D.19-11-016, D.21-06-035, D.21-12-015, and D.22-02-004.



Figure APSP-4: Summer Weekday Average Hourly Shape

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This market price differential was again observed in the summer months of 2022. While the IRP forecasts an increase in additional resources coming online in 2024 that could limit future summer market price spikes, it is premature to make this change based on forecasts and without observable market data supporting this hypothesis. Flattening TOU differentials,

especially in summer months, could have the unintended consequence of muting a necessary
price signal and discourage needed customer demand response during critical times of the day.
Given all of this information, SDG&E believes the best course of action is to continue using the
cost-based differentials that are currently in effect, rather than implement the more muted
differentials shown in SDG&E's 2024 commodity cost study.

VII. MEDIUM COMMERCIAL CUSTOMER CLASS PROPOSAL AND APPLICABILITY

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Proposal to Split Current M/L C&I Customer Class

SDG&E is proposing to split the current M/L C&I customer class to create a new customer class for "medium" commercial customers and a class for "large" commercial and industrial customers. Currently, SDG&E has two commercial customer classes: the Small Commercial customer class is generally for customers with maximum demands up to 20 kilowatts (kW), and the M/L C&I customer class is generally for customers with maximum demands over 20 kW.³⁴

15 Pursuant to D.21-07-010, and as detailed in the revised prepared direct testimony 16 SDG&E witnesses Ray C. Utama, Erica Wissman, Hannah Campi, and Gwendolyn 17 MorienEvelyn Luna (Chapter 3), SDG&E was required to consider creating one or more new 18 customer classes for medium commercial customers. SDG&E studied whether it would be 19 appropriate to split its M/L C&I customer class and is proposing herein to split its current M/L 20 C&I class into two classes: one customer class for "medium" commercial customers with 21 maximum demands up to 200 kW, and one customer class for "large" commercial and industrial customers with maximum demands exceeding 200 kW. Based on SDG&E's analysis, the 22 23 differences in cost to serve customers with demands under 200 kW and demands over 200 kW is

³⁴ Specific eligibility requirements are detailed in SDG&E's tariffs.

sufficiently different to justify dividing the customer class. Additionally, splitting the class at the 200 kW level leaves a sufficient number of customers in each class. The <u>revised</u> prepared direct testimony of SDG&E witness Ray C. Utama (Chapter 2) and witness Hannah Campi (Chapter 3) discuss in more detail the revenue allocation and rate design of the proposed Medium Commercial customer class.

SDG&E anticipates once this proposal is approved it will develop an ME&O plan to communicate and educate customers impacted by this change. SDG&E's implementation timing is discussed in section XI.

VIII. PROPOSAL TO UPDATE MEDICAL BASELINE DISCOUNT METHODOLOGY

SDG&E offers a Medical Baseline program in compliance with statute and Commission direction that provides eligible medical customers with a higher baseline allocation to cover the additional energy needs required by their medical equipment.³⁵ Baseline allowance is a feature of tiered residential rates, where a certain quantity of consumption each month is provided at a lower price (*i.e.*, Tier 1 pricing), and all consumption beyond that quantity is provided at a higher price (*i.e.*, Tier 2 pricing). Eligible medical baseline customers also receive an embedded rate discount on their tiered prices.³⁶ However, SDG&E also offers non-tiered residential rates, where all volumetric energy rates are priced the same, regardless of quantity of consumption. Because these rates are non-tiered, there is no option to provide an additional amount of energy at a lower price to medical baseline customers who would otherwise receive lower rates if they chose a tiered rate.

For this reason, SDG&E proposes to update the medical baseline to a line-item discount for eligible medical customers on residential tiered *and* non-tiered rate schedules to provide both

³⁵ Per California Public Utilities Code §739(c) and D.15-07-001.

³⁶ D.15-07-001 at 247-250.

sets of customers the same type of discount. In addition, SDG&E is proposing to update the medical baseline discount percentage to better align with the discounts provided by the other California Investor-Owned Utilities (IOUs). The revised prepared direct testimony of SDG&E witnesses Ray C. Utama, Erica Wissman, Hannah Campi, and Gwendolyn MorienEvelyn Luna (Chapter 3) discusses SDG&E's proposal to update the Medical Baseline discount methodology in more detail.

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IX. **PROPOSAL TO ASSESS CRITICAL PEAK PRICING (CPP) PERIODS LESS** FREQUENTLY

Currently, SDG&E is required to file an annual Tier 2 AL that updates the CPP event period based on a loss of load analysis.³⁷ SDG&E has filed this Tier 2 AL in compliance with D.17-08-030 since 2018, and changed its CPP period once to align with its current on-peak period.³⁸ Changing the CPP event period is a significant task: it requires development and conducting of a marketing, education and outreach campaign to all customers. Additionally, it is 14 logical to align the CPP event period with the on-peak period. A CPP that differs from the on-15 peak period is likely to send confusing and conflicting price signals to customers. Each change 16 would need to have a significant ME&O campaign. Therefore, SDG&E does not believe it will 17 change CPP periods outside of a base TOU period change. It makes sense for CPP periods to be 18 aligned with the currently effective on-peak period and for adjustments to CPP periods to 19 coincide with adjustments to TOU periods. Therefore, in the interest of customer understanding, 20 education, and the significance of a change in the CPP period, SDG&E is proposing to eliminate

³⁷ D.17-08-030, OP 32 at 92.

³⁸ AL 3667-E, approved and effective December 13, 2021, changed the 2 PM – 6PM CPP period adopted in D.17-08-030 to 4 PM - 9 PM per D.21-03-056, to align with SDG&E's current on-peak period and the hours of greatest capacity need.

this annual compliance requirement and evaluate its CPP event period every GRC Phase 2
 starting with the current GRC cycle.

X. ADDITIONAL COMPLIANCE REQUIREMENTS

SDG&E is required to provide other information as a part of this Application, including: A) a Deadband Tolerance Assessment;³⁹ and B) NEM vs. Non-NEM Marginal Costs.⁴⁰

A. Deadband Tolerance Assessment

D.17-01-006 required SDG&E to conduct a deadband tolerance test for determining
when a change would trigger TOU period revisions more frequently than five-year intervals, and
provide Base TOU period analysis. As directed, SDG&E filed AL 3064-E on April 3, 2017,
proposing a two-part methodological test for the deadband tolerance rate. The CPUC issued
Resolution E-4948 on November 29, 2018, approving SDG&E's proposal in part, and SDG&E
filed supplemental AL 3064-E-A on December 17, 2018, to comply with the resolution.
SDG&E has included the results of the deadband tolerance assessment in this Application, as
discussed in the revised prepared direct testimony of SDG&E witness Jeff DeTuri (Chapter 5).
The results of the assessment support the current base on-peak and off-peak TOU periods, but as
discussed in Section V.A., indicate that prices are low during the mid-day hours. Therefore,
SDG&E is proposing to extend the current March/April weekday Super Off-Peak period of 10
AM – 2 PM throughout all months of the year.

³⁹ D.17-01-006, OP 1 at 77-78, and Resolution E-4951 (September 13, 2018).

⁴⁰ D.21-07-010, OPs 1 and 2 at 88, adopted the 2019 GRC Phase 2 settlement agreement.

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B. NEM and Non-NEM Marginal Costs

Pursuant to the SDG&E's TY 2019 GRC Phase 2 Settlement Agreement, SDG&E was required to evaluate distribution and commodity NEM and non-NEM marginal costs in this application.⁴¹ These marginal costs are presented in the <u>revised</u> prepared direct testimony of SDG&E witness William G. Saxe (Chapter 4) and witness Jeff DeTuri (Chapter 5). It is important to examine the differences between NEM and non-NEM customers to determine if there are significant differences in the cost to serve these customers. If the cost to serve certain customer groups is higher, it may serve as justification to require those customers to pay higher rates. Additionally, this analysis serves to inform the Commission whether there are crosssubsidies embedded within the current rate construct. The analysis is limited to distribution and commodity costs, and therefore, limited to those rate components.

As shown in the <u>revised</u> prepared direct testimony of SDG&E witness William G. Saxe (Chapter 6), the distribution cost to serve NEM customers is generally higher than non-NEM customers. Figure <u>APSP</u>-6 below shows the illustrative residential marginal distribution cost rates to serve NEM and non-NEM customers.

⁴¹ D.21-07-010, Appendix B, Section 2.2.6 at 13.

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Figure APSP-6: Residential Non-NEM vs. NEM Distribution Cost Comparison (¢/kWh)



Commodity costs for NEM customers are also shown to be generally higher by customer class in the commodity cost analysis as shown in the <u>revised</u> prepared direct testimony of SDG&E witness Jeff DeTuri (Chapter 5). Figure <u>APSP</u>-7 below shows the illustrative residential marginal commodity cost to serve NEM and non-NEM customers.

Figure APSP-7: Residential NEM vs. Non-NEM Commodity Cost Comparison (¢/kWh)



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XI. IMPLEMENTATION TIMING

Primarily due to the significant work needed to design, build, test, and deploy SDG&E's proposal to split the current M/L C&I class into two distinct Medium Commercial and Large C&I customer classes, as well as the implementation of new TOU periods, including the necessary marketing related to the proposed TOU period change and new customer class, SDG&E anticipates that it will be able to implement the changes proposed in its Application 180 days after the adoption of a final decision.

This concludes my prepared direct testimony.

XII. WITNESS QUALIFICATIONS

My name is Adam PiereeSamantha Pate, and my business address is 8330 Century ParkCourt, San Diego, California 92123. I am the Director of Customer Pricing at SDG&E. Myprimary responsibilities include managing: the development of rate design in various regulatoryfilings, rate strategy, determination of revenue allocation, and load forecasting and analysis.I received a Bachelor of Science degree in Business Administration with emphases onboth Economics and Finance from Saint Louis UniversityAccountancy from University of SanDiego in 2007. Upon receiving my bachelor's degree, I was employed at financial services firmsfocusing on debt, equity and mergers and acquisitions transactions for energy and powercompanies. I joined Sempra Energy SDG&E in 2012-2006 and have held various positions ofincreasing responsibility at the Sempra family of companies including: Sempra Energy's SempraEnergy's Investor Relations Manager, SDG&E's Senior Regulatory Policy Manager andSDG&E's Director of Strategic Planning.

I have <u>not</u> previously testified before the California Public Utilities Commission.