

# Exhibit to Agenda Item #1

Discuss the monitoring report for **Strategic Direction SD-4, Reliability.**

Board Policy Committee and Special SMUD Board of Directors Meeting

Wednesday, June 12, 2024, scheduled to begin at 6:00 p.m.

SMUD Headquarters Building, Auditorium

# Agenda

- 2023 SD-4 annual monitoring report

# SD-4, Reliability Policy

Meeting customer energy requirements is a core value of SMUD.

Therefore:

SMUD will assure all customer energy requirements are met. This will be accomplished through the use of: (i) its generation resources and purchase power portfolio 100 percent of the time; and (ii) its transmission assets to assure an overall availability of at least 99.99 percent.

SMUD will achieve distribution system reliability by:

Limiting the average frequency of outage per customer per year to:

- With major event : 0.99 – 1.33
- Excluding major event : 0.85 – 1.14

Limiting the average duration of outages per customer per year to:

- With major event: 67.5 – 93.3 minutes
- Excluding major event: 49.7 – 68.7 minutes

Ensuring that no individual circuits exceed these targets for more than two consecutive years. For circuits that exceed these targets for two consecutive years, a remedial action plan will be issued and completed within eighteen months.

SMUD will maintain the electric system in good repair and make the necessary upgrades to maintain load serving capability and meet regulatory standards.

# SD-4, 2023 Reliability Results

## *Generation and Transmission System*

Met customers' energy supply needs 100% of the time through a combination of SMUD generation and purchase power supplies

- *Generation Asset and Gas Pipeline Availability*
  - *Thermal Generation – 80.83%*
  - *Hydro Generation – 86.41%*
  - *Thermal Generation June through September – 96.55%*
  - *Hydro Generation June through September – 88.11%*
  - *At system peak, 53% of the generation was provided by internal resources and 47% was provided by purchased power*
- *Overall availability of transmission system was 100%*

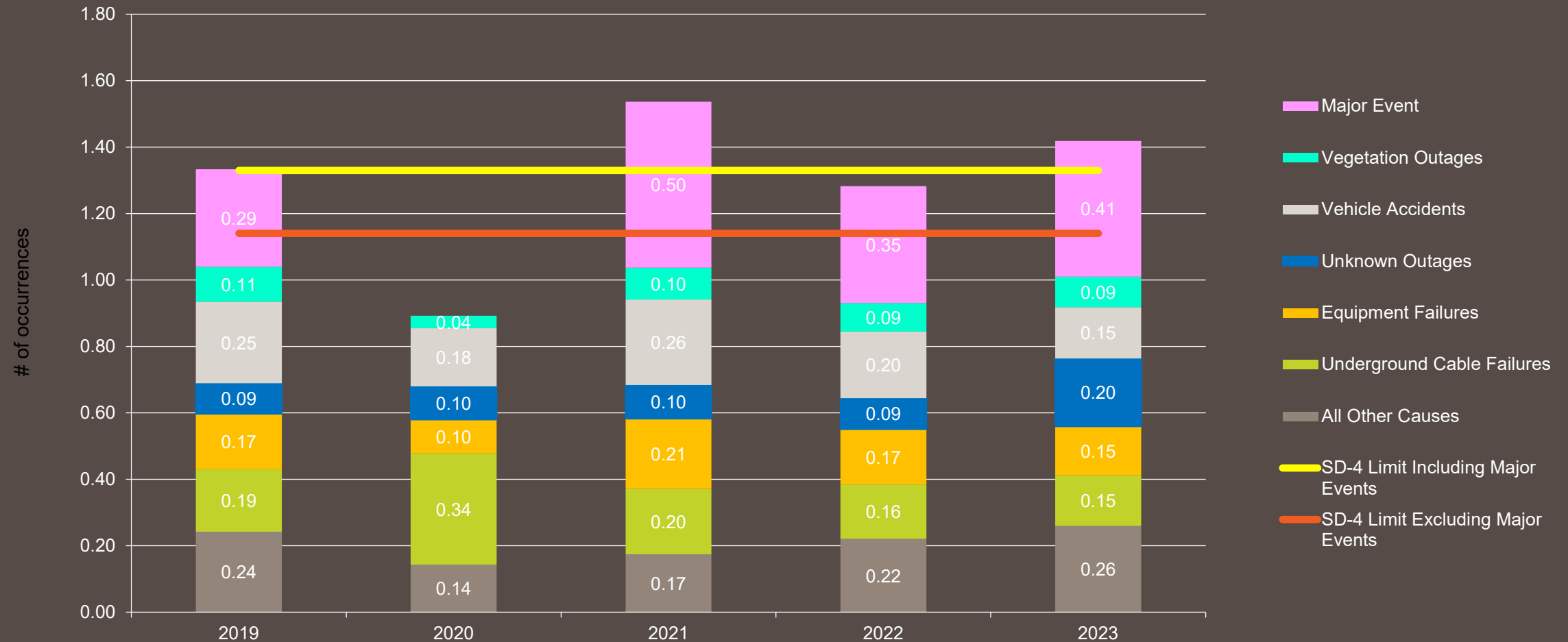
# SD-4, 2023 Reliability Results

SMUD was in compliance for SAIFI (excluding major events). Reliability targets were exceeded for SAIDI excluding major events (75.6 minutes), as well as SAIFI (1.42) and SAIDI (318.2 minutes) including major events.

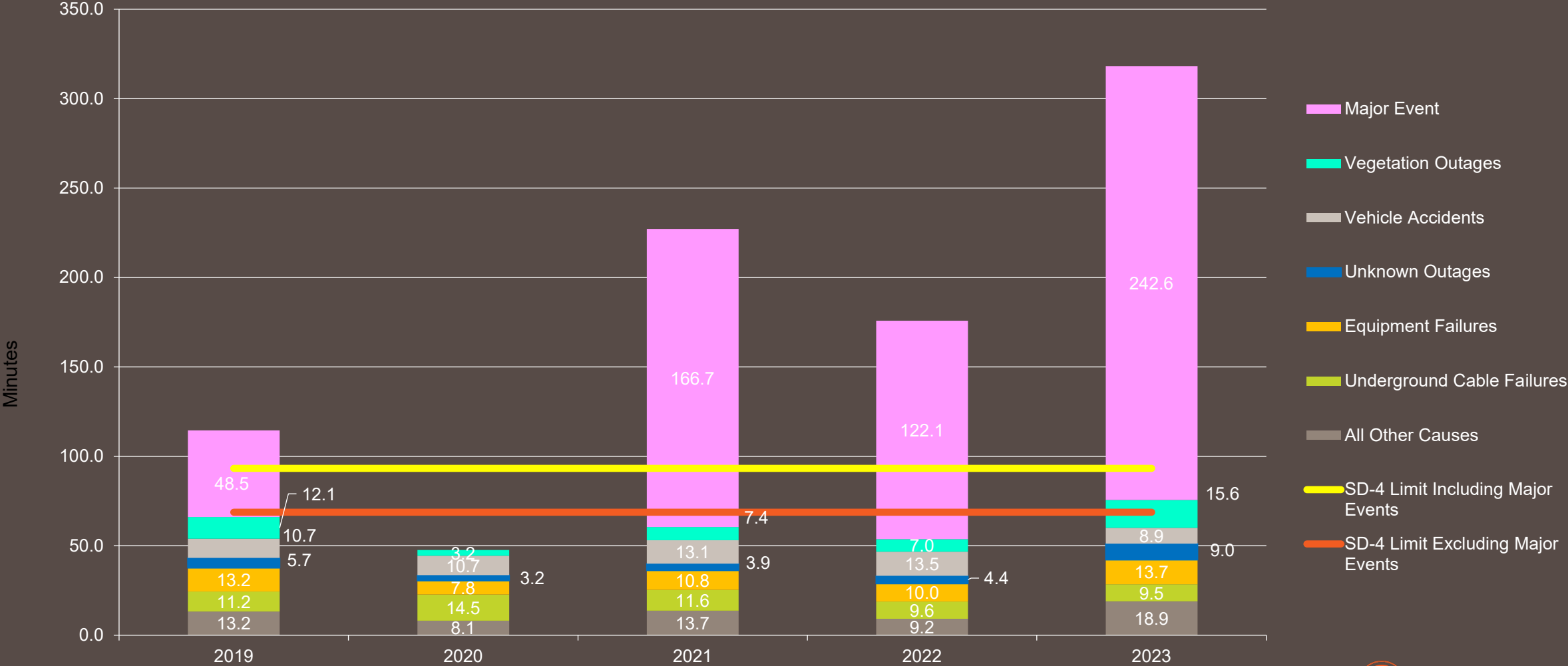
	With Major Events		Excluding Major Events	
	SD-4 Limit	2023 Results	SD-4 Limit	2023 Results
<b>SAIFI</b> [Average Outage Frequency]	<b>1.33</b>	<b>1.42</b>	<b>1.14</b>	<b>1.01</b>
<b>SAIDI (minutes)</b> [Average Outage Duration]	<b>93.3</b>	<b>318.2</b>	<b>68.7</b>	<b>75.6</b>

98.7% of all distribution circuits (753 circuits) met the reliability criteria

# Outage Frequency (SAIFI) Performance Drivers Multi-Year Comparison



# Outage Duration (SAIDI) Performance Drivers Multi-Year Comparison



# 2023 Worst Performing Circuits

- Ten circuits exceeded reliability limits for two or more consecutive years.
- Twenty projects were issued to improve reliability of the above ten circuits.
  - Eleven projects have been completed.
  - Remaining nine projects are in progress and scheduled to be completed within the 18-month requirement.



# Requested Action

Accept the 2023 SD-4 monitoring report

# Questions

