

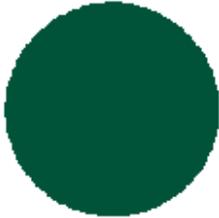
Reliability and Security Dashboard

Reliability Risk Management

July 12, 2022

Quarter 1 2022 Dashboard

Indicator 1:
Reportable
Events



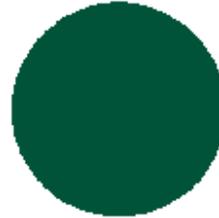
Indicator 2:
Protection System
Misoperations



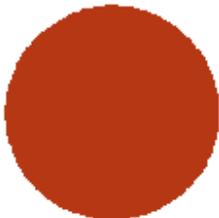
Indicator 3:
Transmission
Outages



Indicator 4:
Energy Emergency
Alerts



Indicator 5:
Operation
Outside BAAL



Indicator 6:
System
Frequency



Indicator 7:
Standards
Compliance



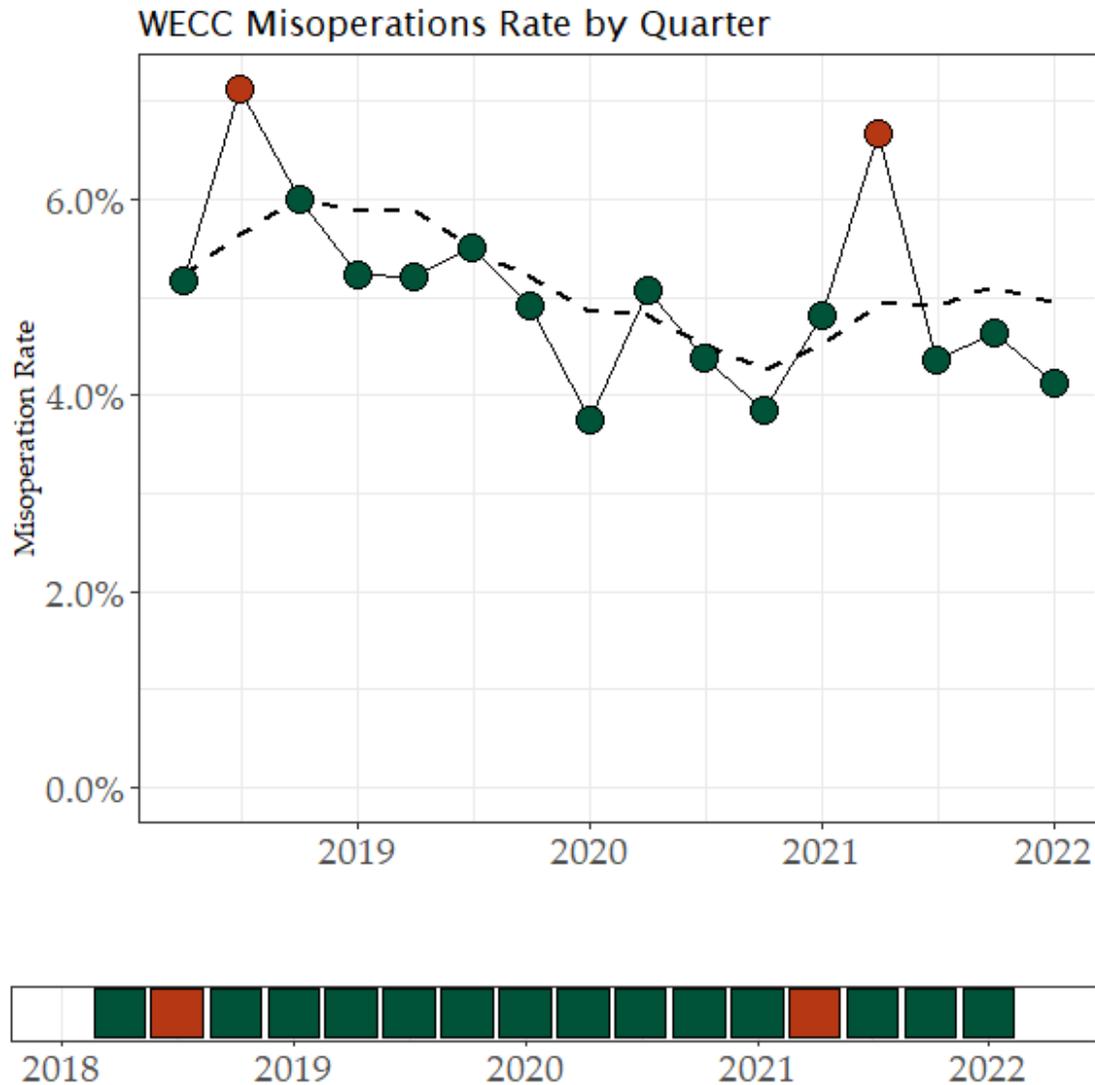
Indicator 1



Quarterly Evaluation

In Q1 2022, there were only five events that met criteria in the ERO Event Analysis Process. Of these five events, there were no Level 2 or higher events. While none of the events resulted in loss of firm load, four of the five events resulted in generation loss (between 180 and 903 MW). This is likely the reason the eSRI total was slightly higher than the mean of the four quarters up to and including that quarter. Even with this slightly higher eSRI total, the status of Indicator 1 is “green.”

Indicator 2

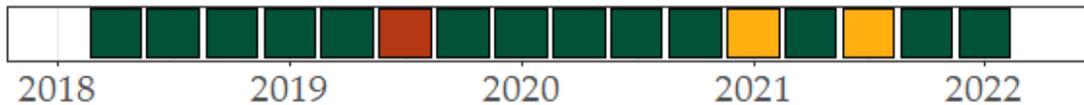
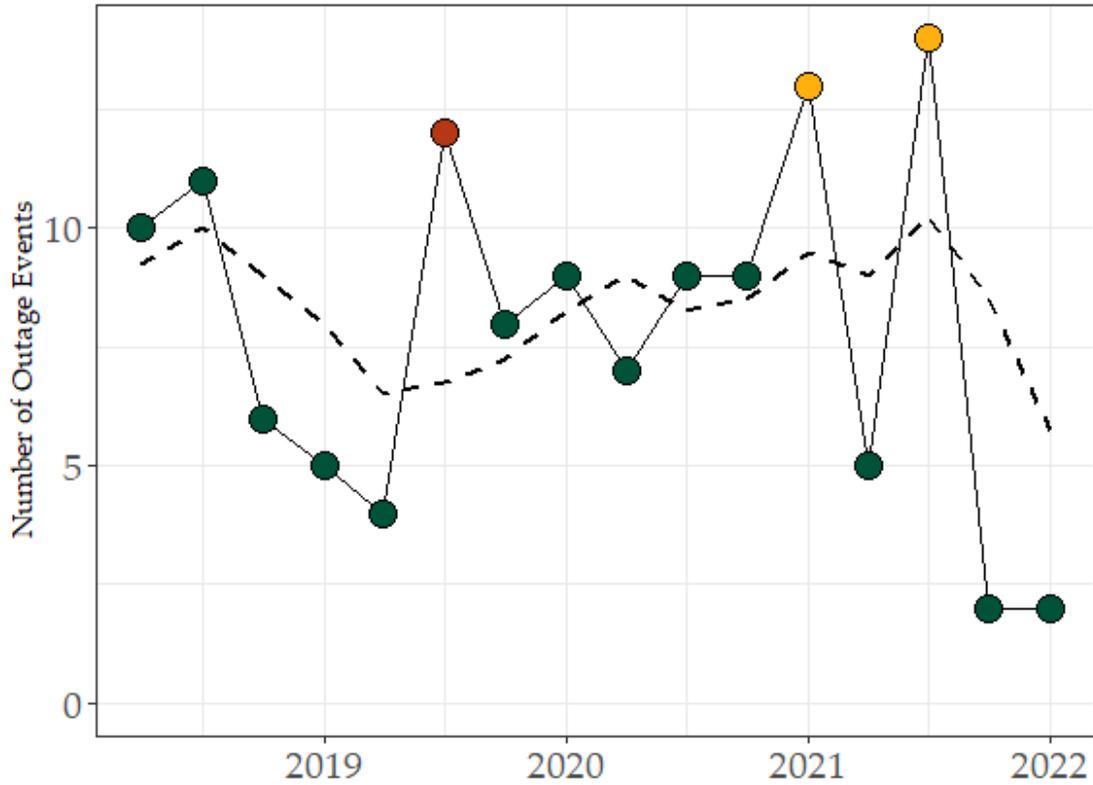


Quarterly Evaluation

The Western Interconnection saw the lowest number of reported misoperations since the MIDAS portal's inception (Q2 2016), as well as a low operations count. This ratio resulted in one of the lowest misoperations rates seen in the Western Interconnection through this period. Consequently, this indicator is "green."

Indicator 3

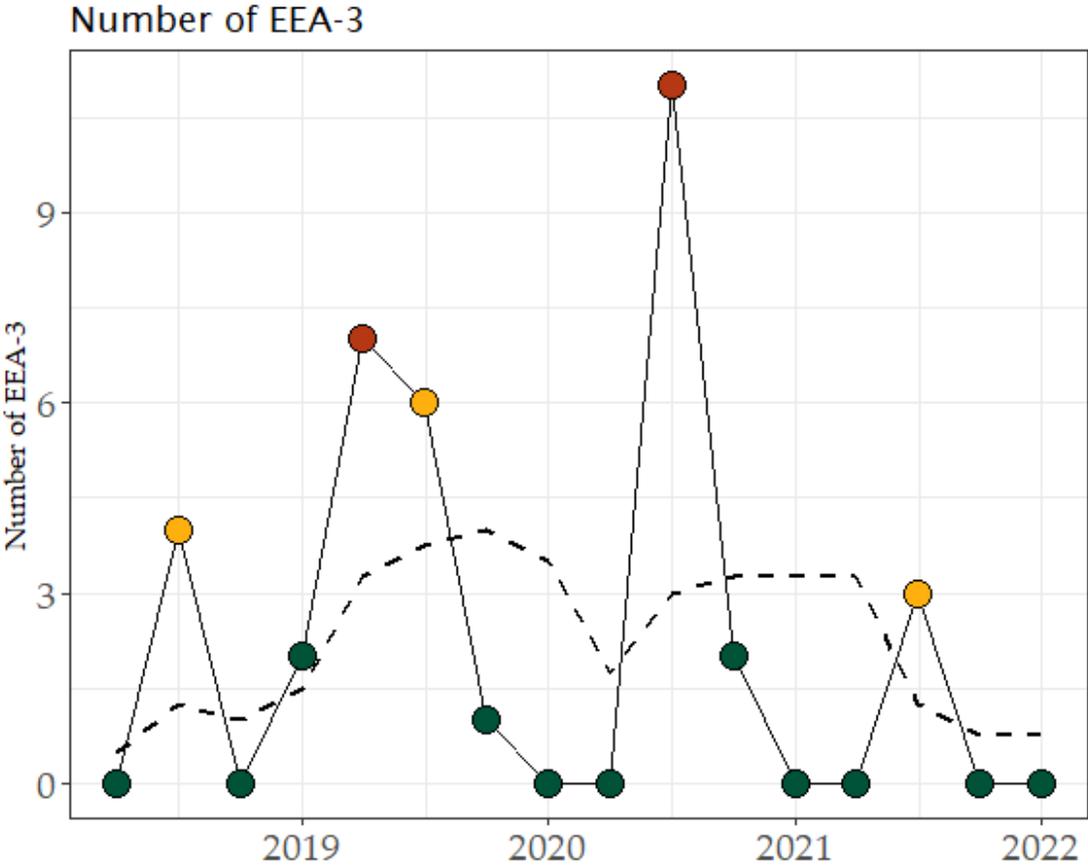
Unplanned Transmission Events of Three or More Elements

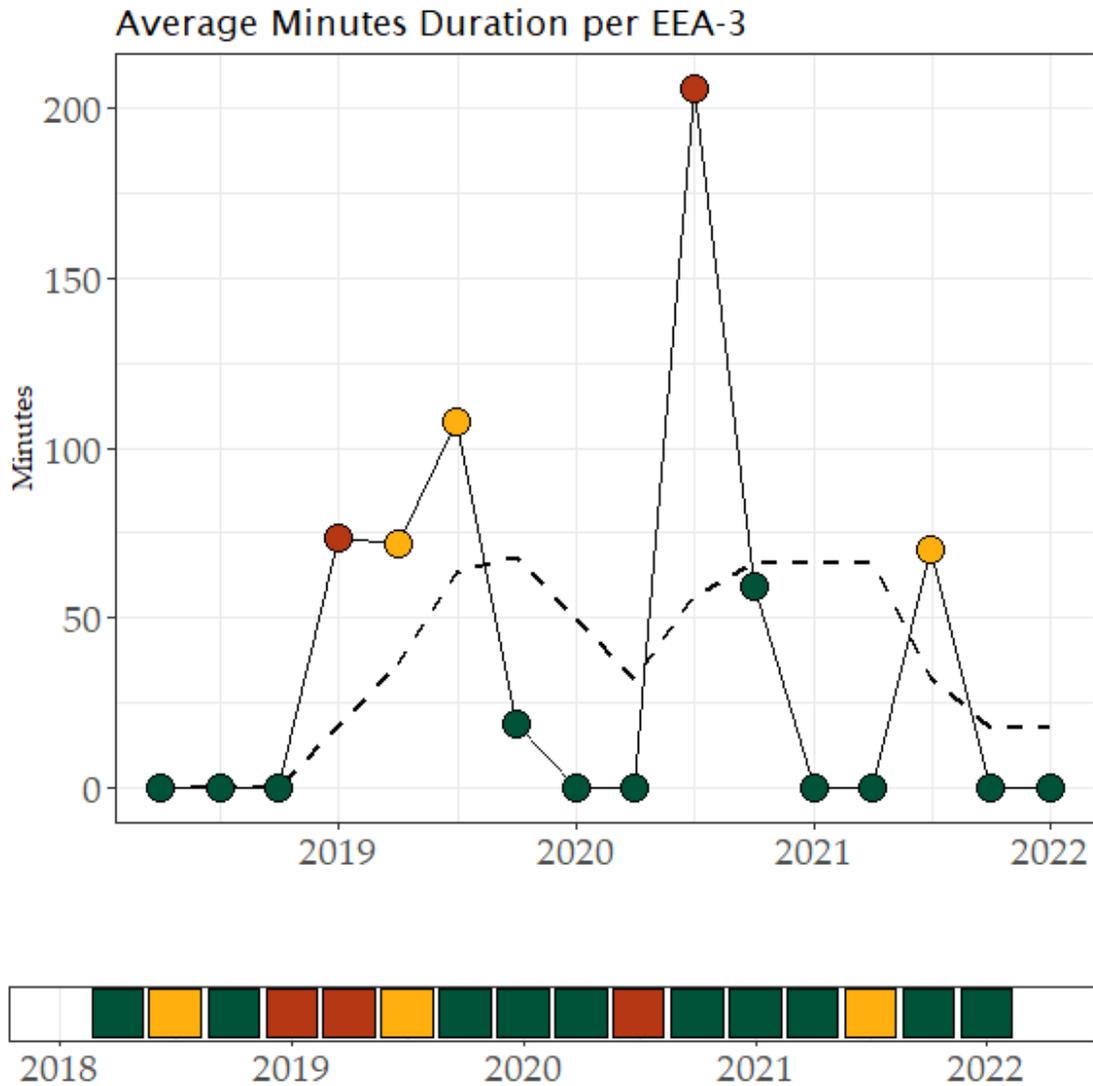


Quarterly Evaluation

There were only two unplanned transmission events of three or more elements in Q1 of 2022, which was below the rolling average. Consequently, Q1 is considered "green" for this indicator. (Note that 2022 deadlines for reporting transmission events have been temporarily relaxed by three months to accommodate changes to the reporting application. Consequently, Q1 2022 statistics may not be complete.)

Indicator 4

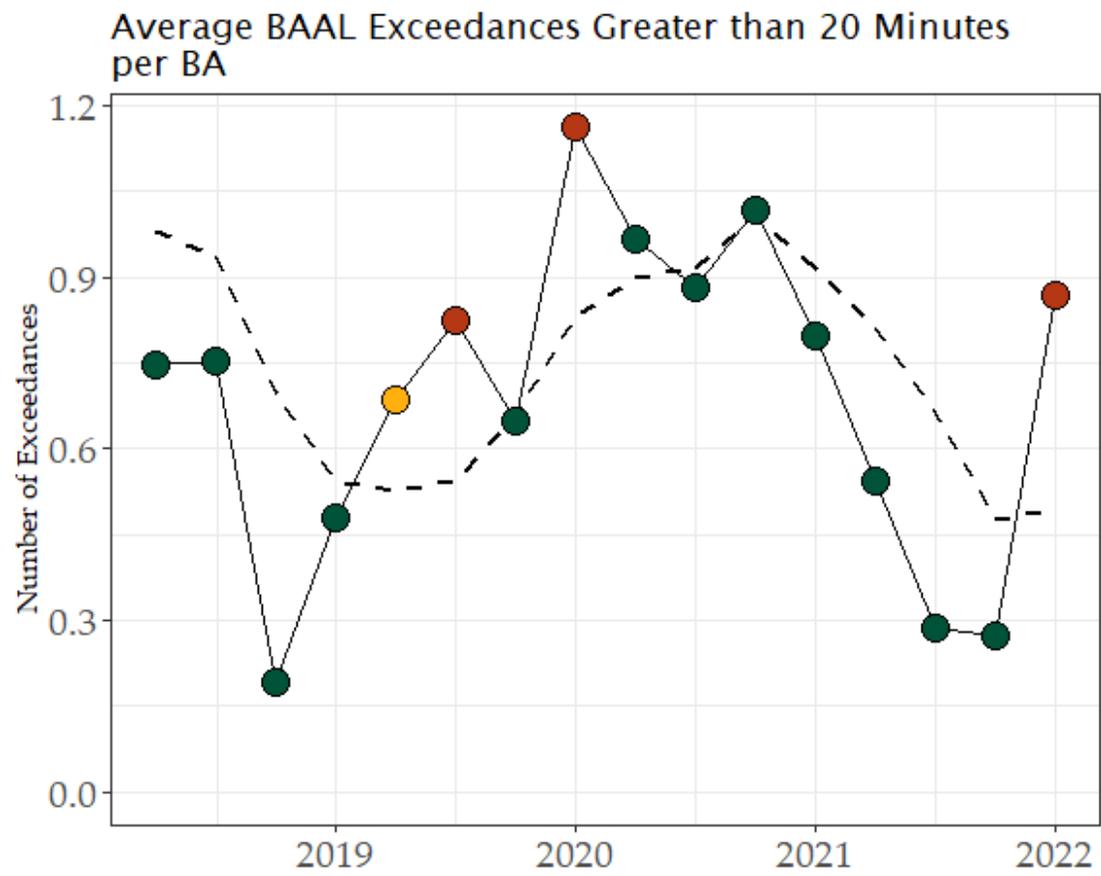




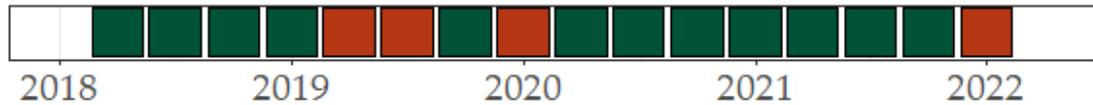
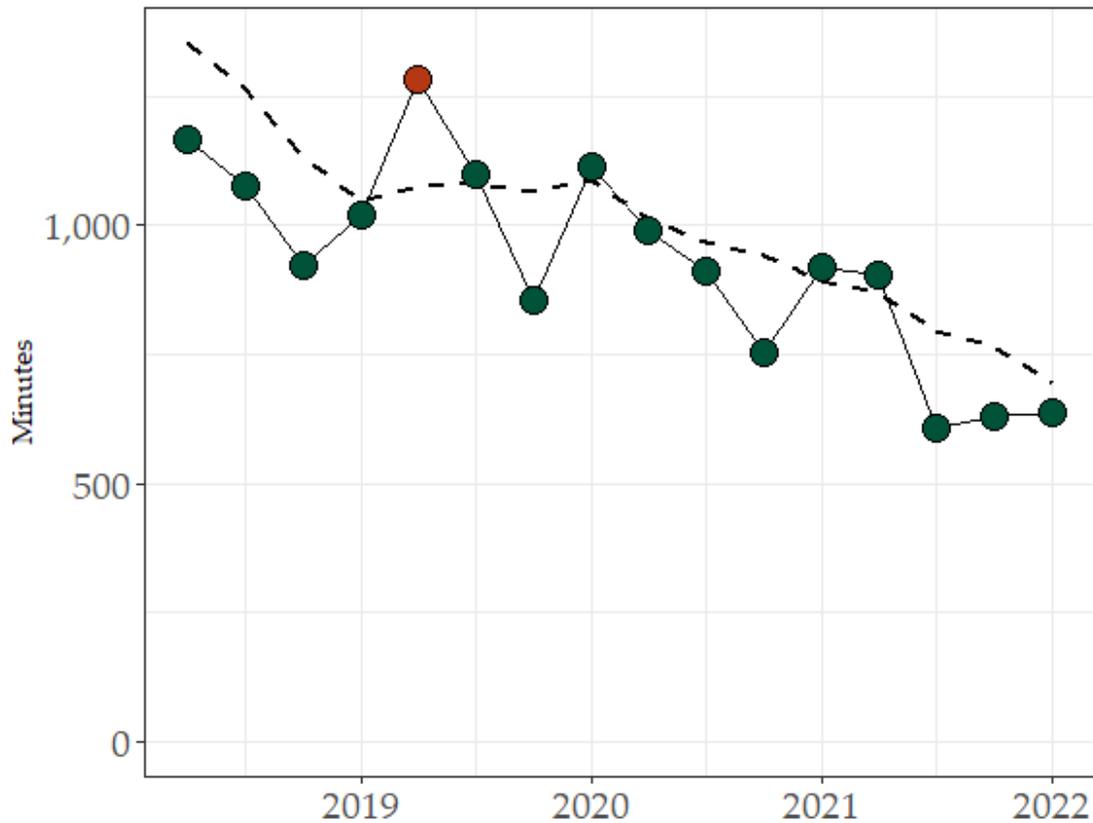
Quarterly Evaluation

The first quarter of 2022 had no EEA-3. In fact, the first quarter had no EEA of any level. Consequently, this indicator is "green."

Indicator 5



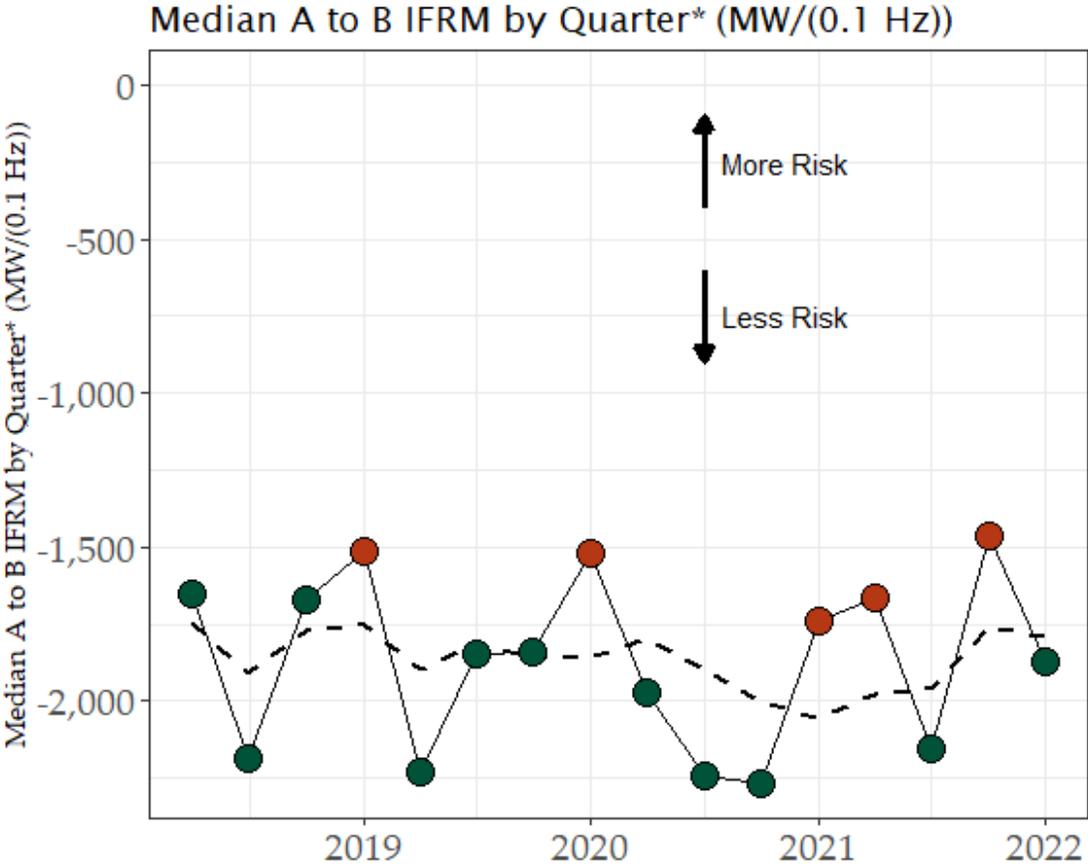
Average BAAL Exceedance Minutes per BA



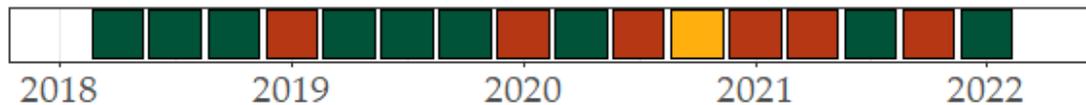
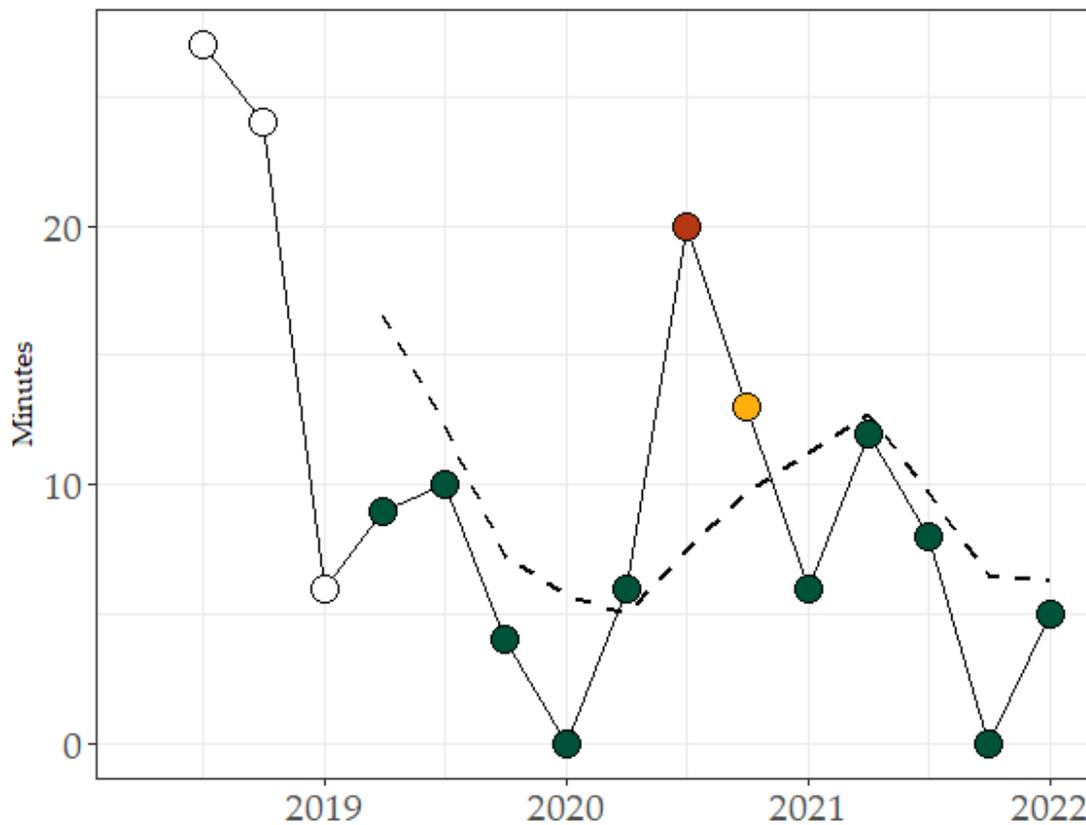
Quarterly Evaluation

The weighted average number of BAAL exceedances greater than 20 minutes ticked sharply upward in Q1, chiefly because a single large BA had one exceedance, and two moderately sized BAs had five and seven each. Nevertheless, the average duration of all exceedances, across all BAs, remained low. This indicator is classified “red” due to the weighted average number of exceedances more than 20 minutes long. The NERC Resources Subcommittee and the WECC Performance Work Group regularly monitor this information and inquire into specific incidents or trends when appropriate.

Indicator 6



Minutes More than +/- 0.068 Hz from 60.0 by Quarter*

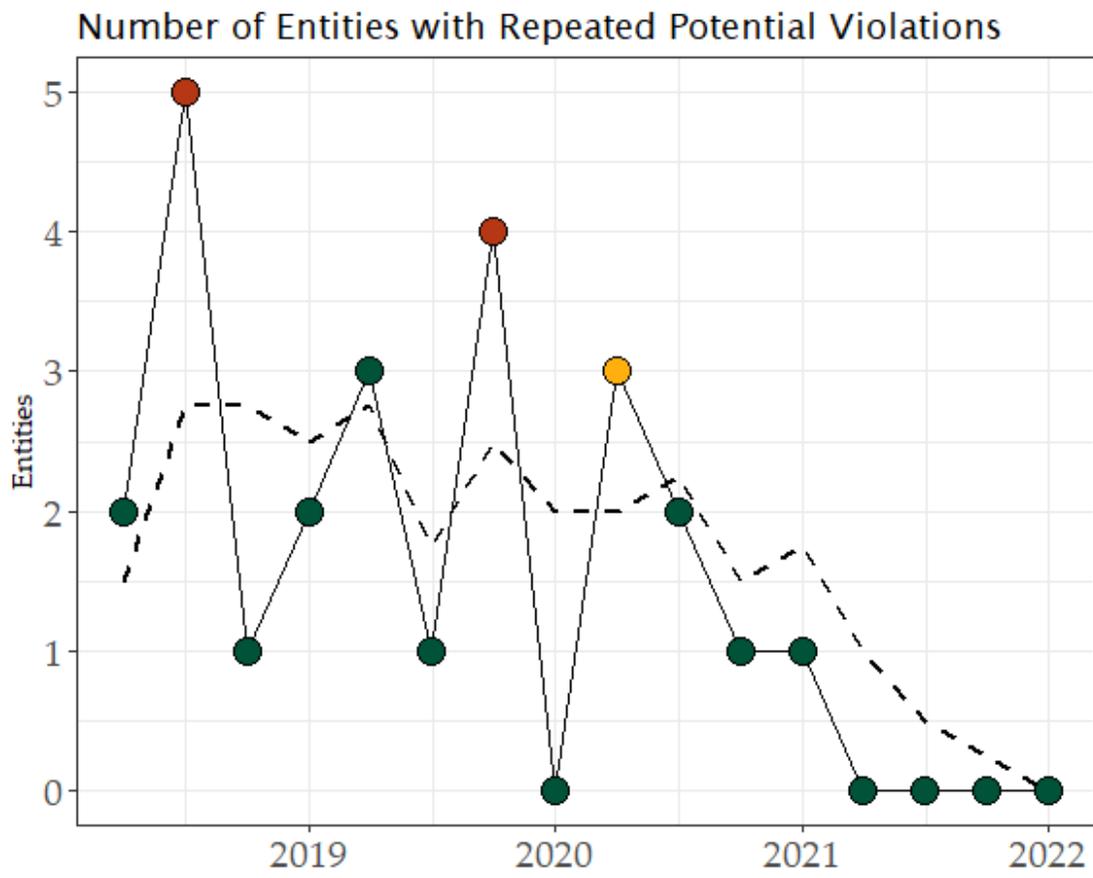


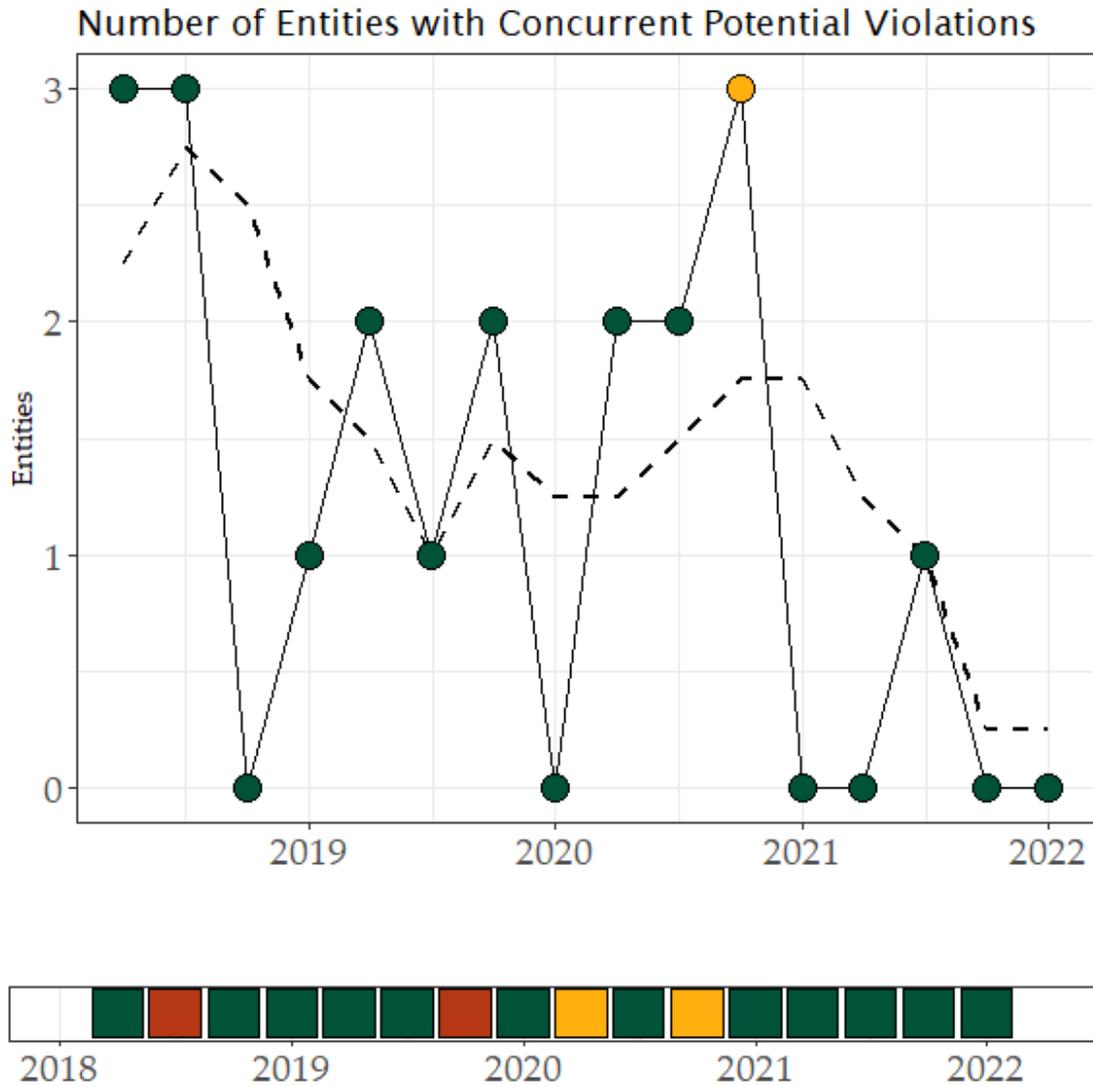
Quarterly Evaluation

Beginning with Q1 2022, Indicator 6 has been modified to use the “operating calendar,” rather than the “standard calendar.” Per the operating calendar, December 2021 through February 2022 represents the first quarter of the 2022 operating year. This change will align Indicator 6 with the meeting, data availability, and reporting schedule of the NERC Resources Subcommittee (RS), which is the source of the IFRM data supporting this indicator. Other indicators will continue to use the standard calendar.

In Q1 of 2022, (December 2021 through February 2022), the median IFRM and the number of minutes during which the system frequency was more than 68 millihertz from 60 hertz were both better than the rolling average of four quarters. Therefore, Indicator 6 is “green.” (The IFRM was based on six events for this quarter).

Indicator 7





Quarterly Evaluation

The number of entities with repeated or concurrent potential violations was zero for Q1 of 2022. Consequently, this indicator is classified as “green.”