

Reliability and Security Dashboard

Reliability Risk Management

September 20, 2022

Quarter 2 2022 Dashboard

Indicator 1:
Reportable
Events



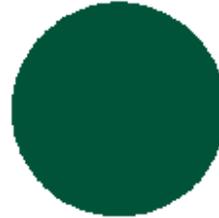
Indicator 2:
Protection System
Misoperations



Indicator 3:
Transmission
Outages



Indicator 4:
Energy Emergency
Alerts



Indicator 5:
Operation
Outside BAAL



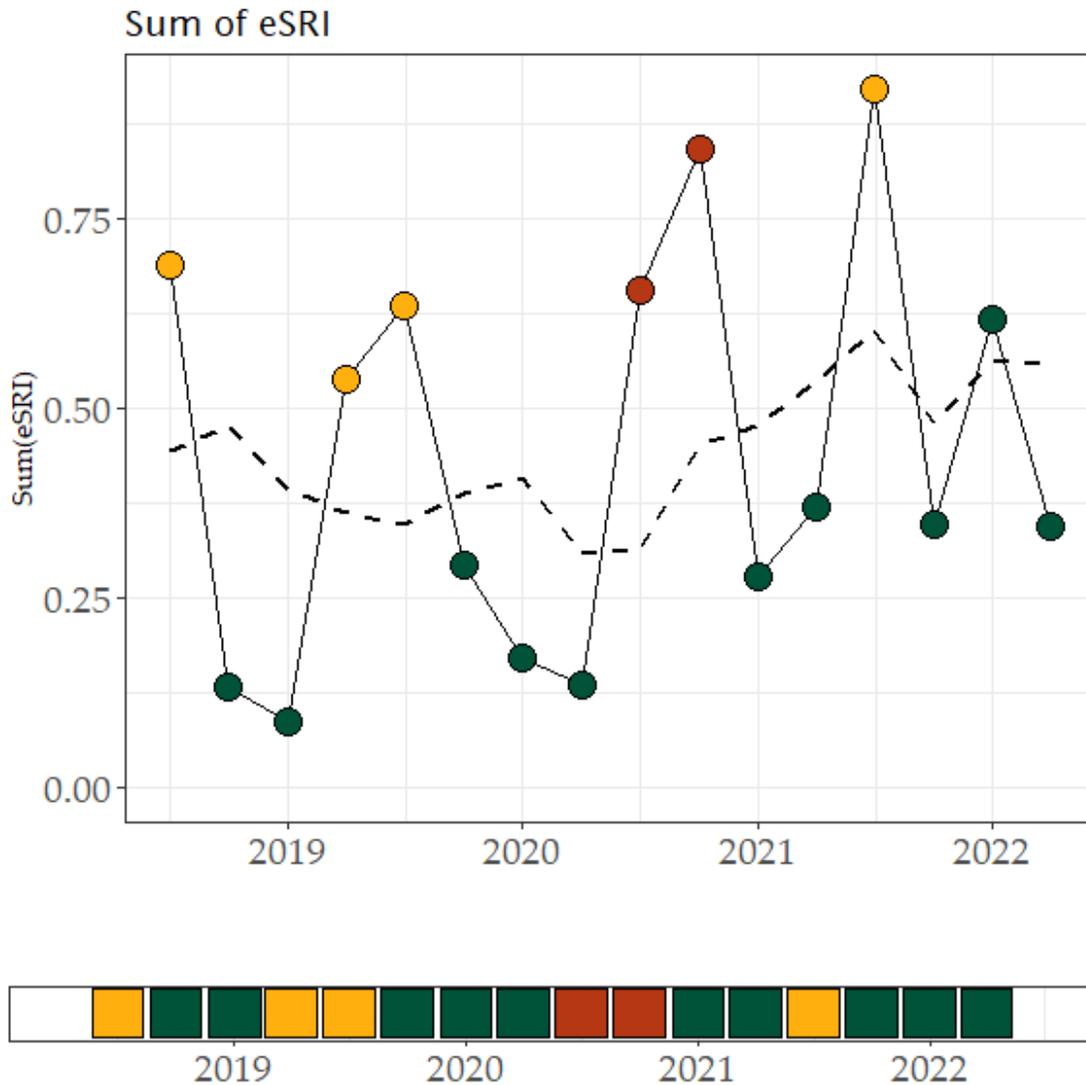
Indicator 6:
System
Frequency



Indicator 7:
Standards
Compliance



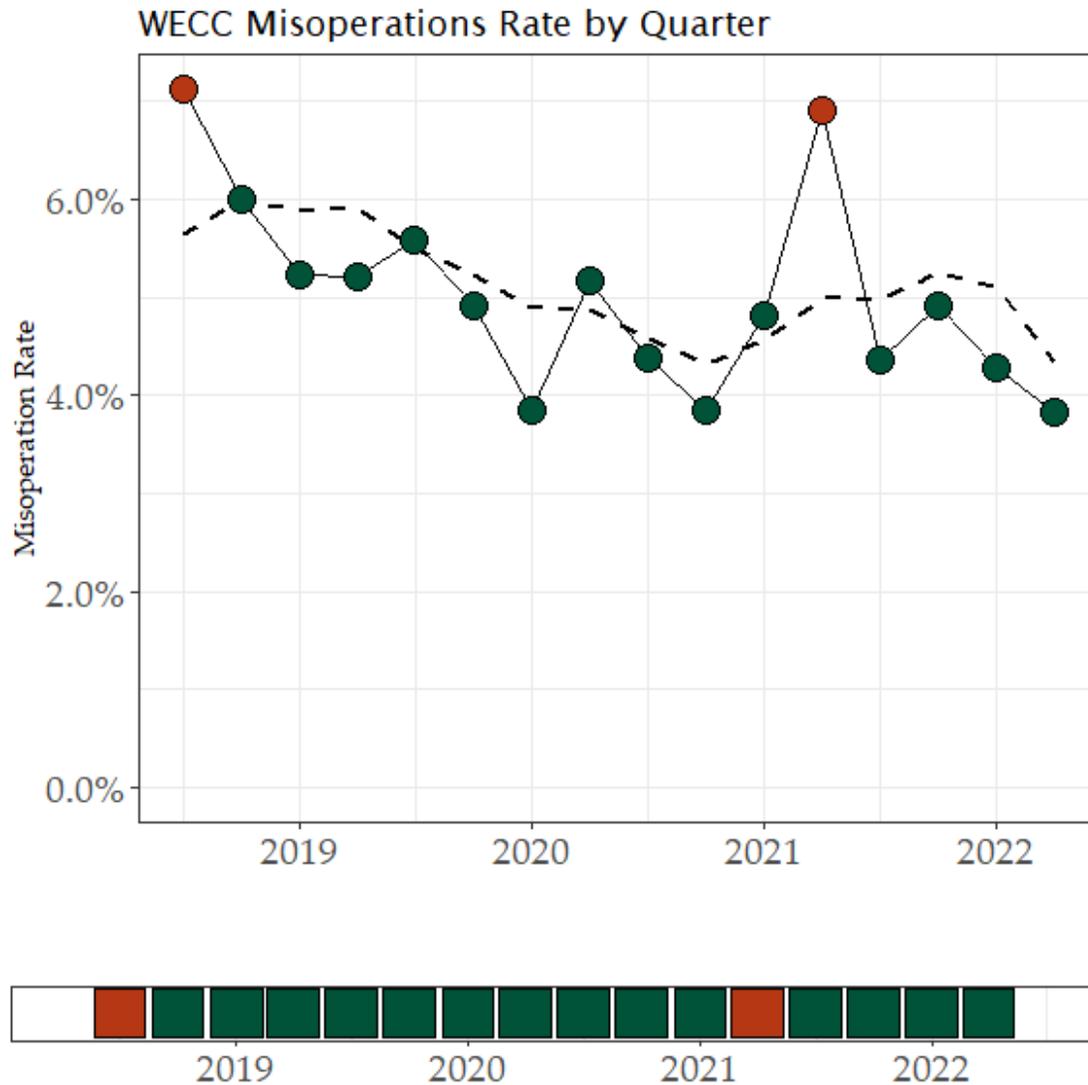
Indicator 1



Quarterly Evaluation

In Q2 2022, the EA group received reports for 10 events that met criteria in the ERO Event Analysis Process. Of these events, there were no Level 2 or higher events. Half of the events were category 1h events, which impacted operation's ability to monitor and control, but did not result in loss of load or impact transmission or generation facilities. These low-impact events were a contributing factor for the eSRI total being lower than the mean of the four quarters up to and including that quarter, represented by the indicator being green.

Indicator 2

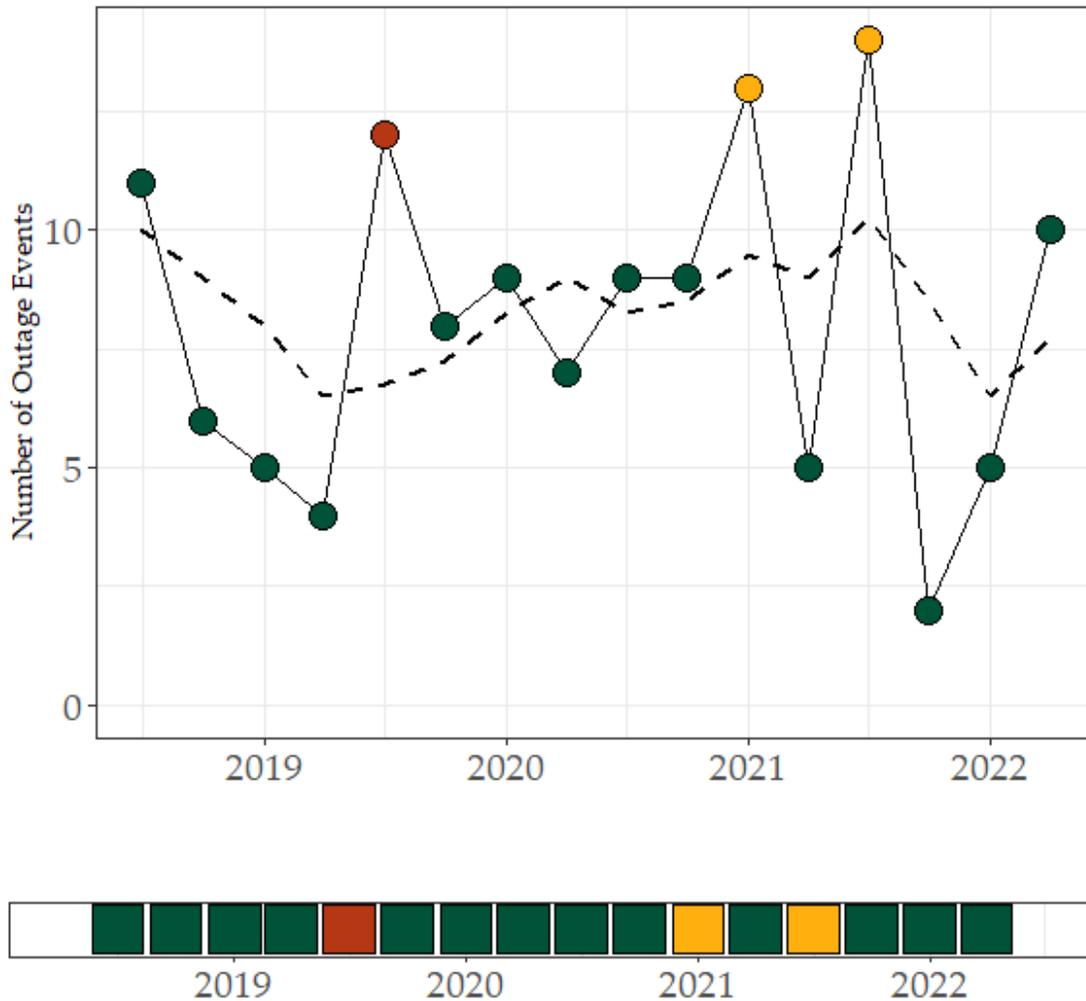


Quarterly Evaluation

The Western Interconnection saw a slightly lower-than-average number of reported misoperations for Q2 2022, and an average number of operations. This favorable ratio resulted in one of the lowest misoperations rates seen. Consequently, this indicator is “green.”

Indicator 3

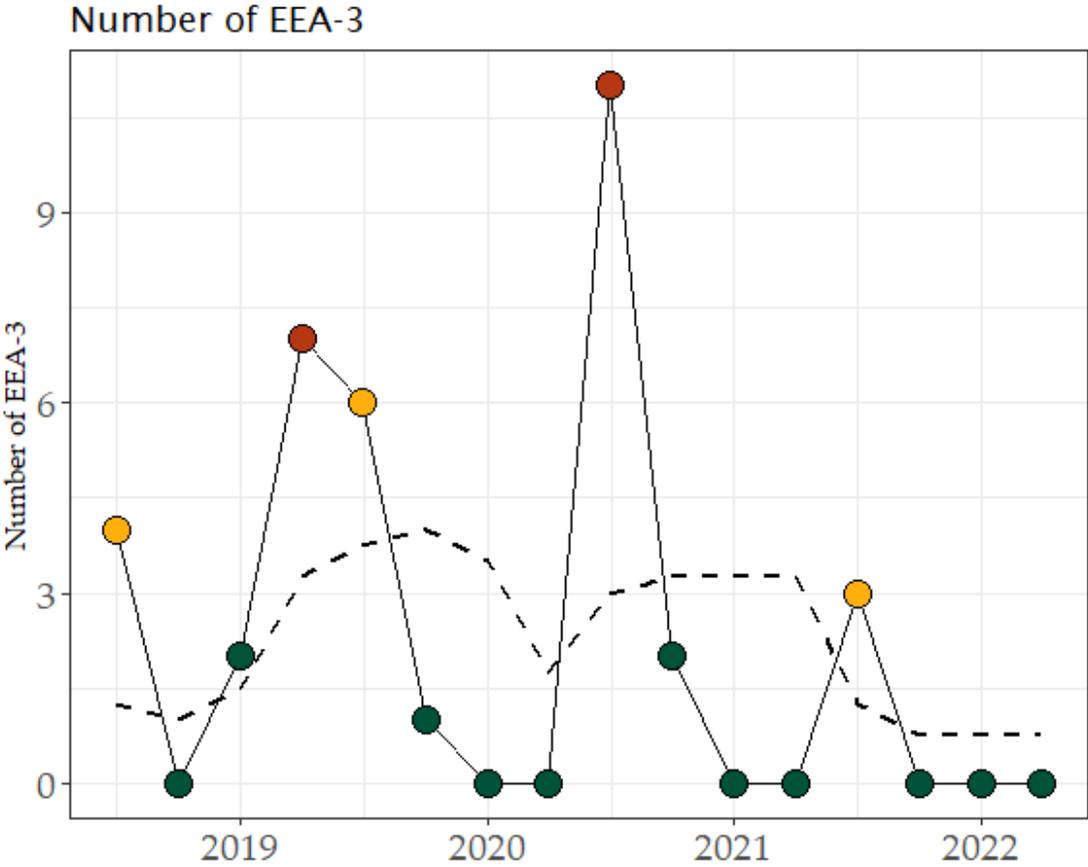
Unplanned Transmission Events of Three or More Elements

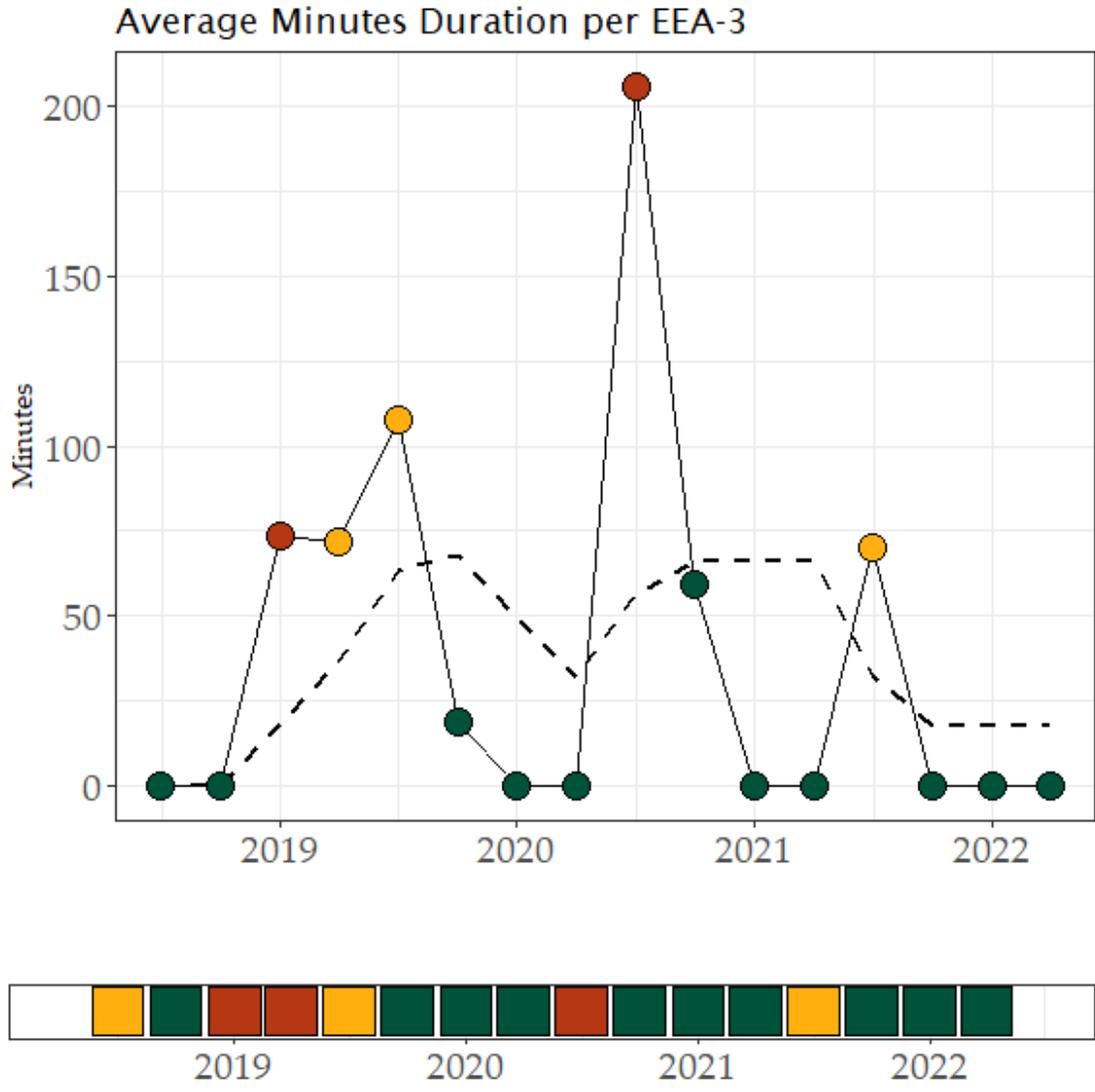


Quarterly Evaluation

The relaxed TADS reporting deadlines for Q1 and Q2 have ended, and reporting has returned to a regular quarterly schedule. As such, the data has been updated to five unplanned transmission events in Q1. There were 10 unplanned events reported in Q2, which places the quarter above the rolling average. Q2 is still considered “green” for this indicator, as the increase from Q1 was not sufficiently significant. These 10 unplanned transmission events were geographically diverse and generally brief. One was momentary, five were less than one hour, and eight were less than six hours. (The longest by far was 321 hours.)

Indicator 4

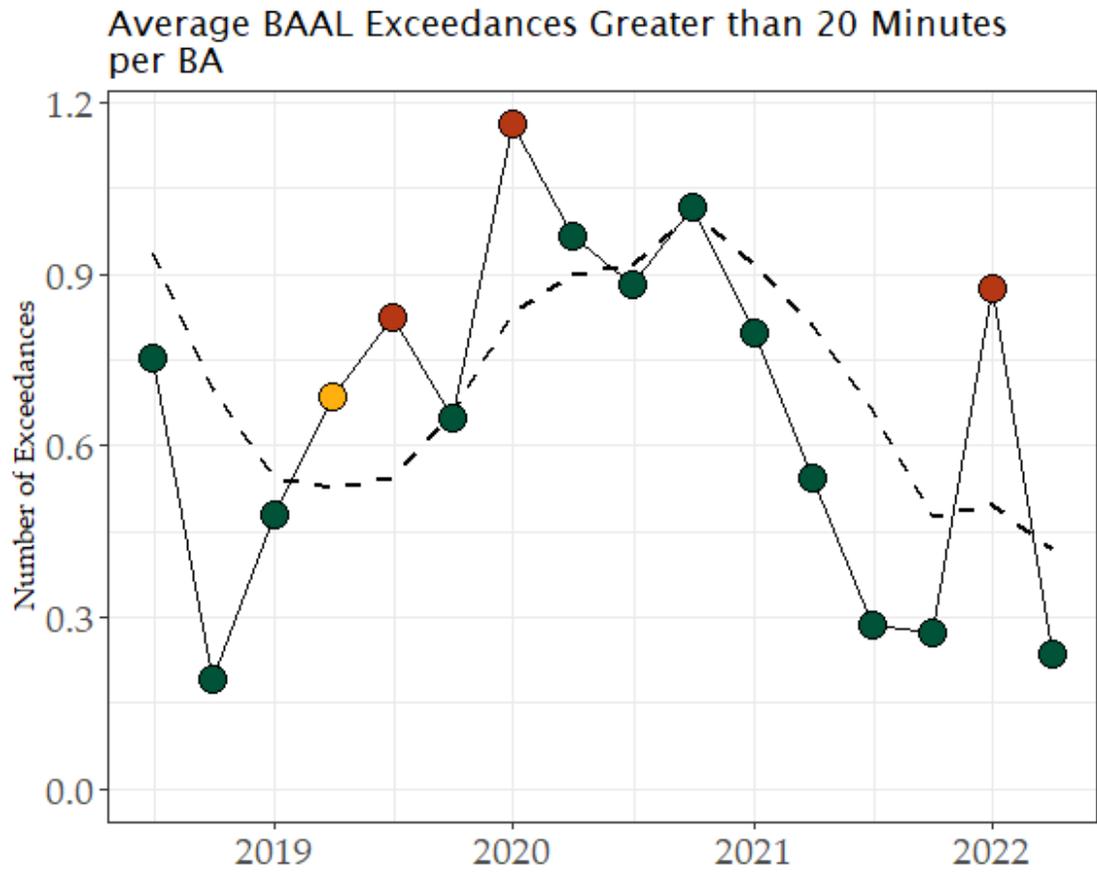




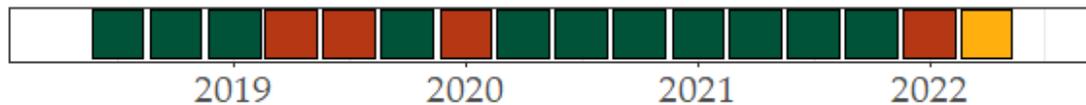
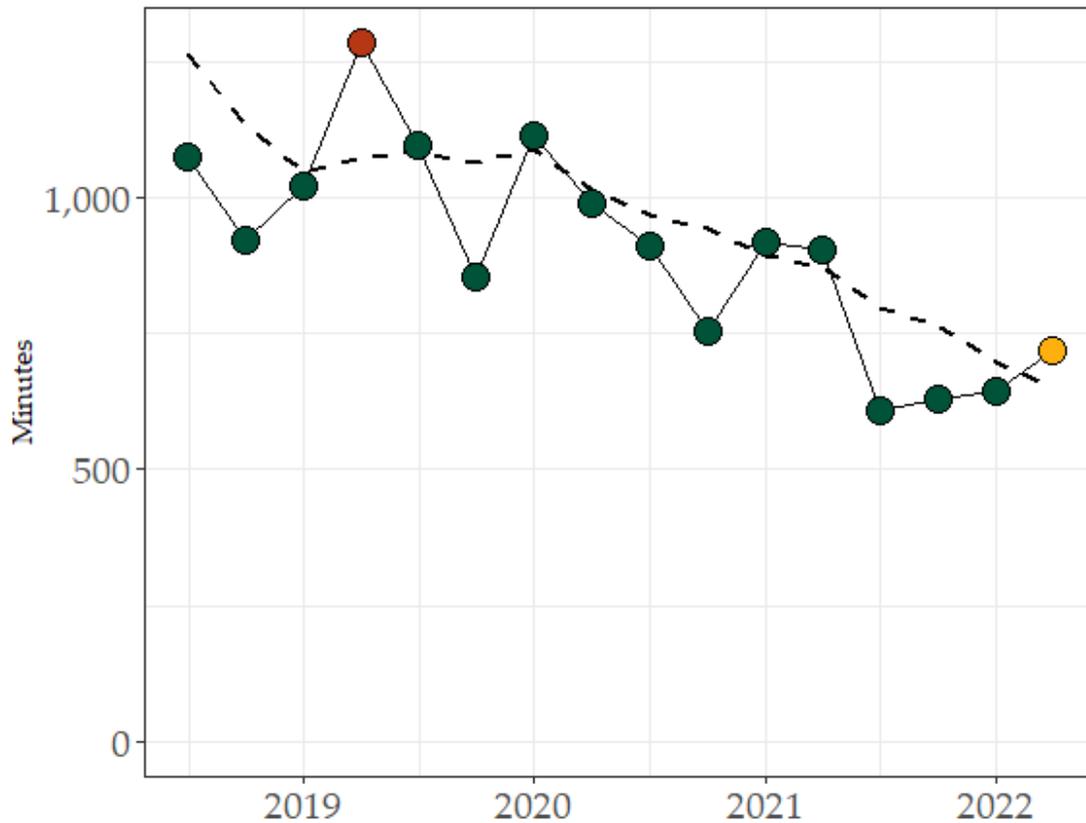
Quarterly Evaluation

The second quarter of 2022 had no EEA-3 events, although one WECC entity did have an EEA-1 and EEA-2 occur in May. Consequently, this indicator remains “green.”

Indicator 5



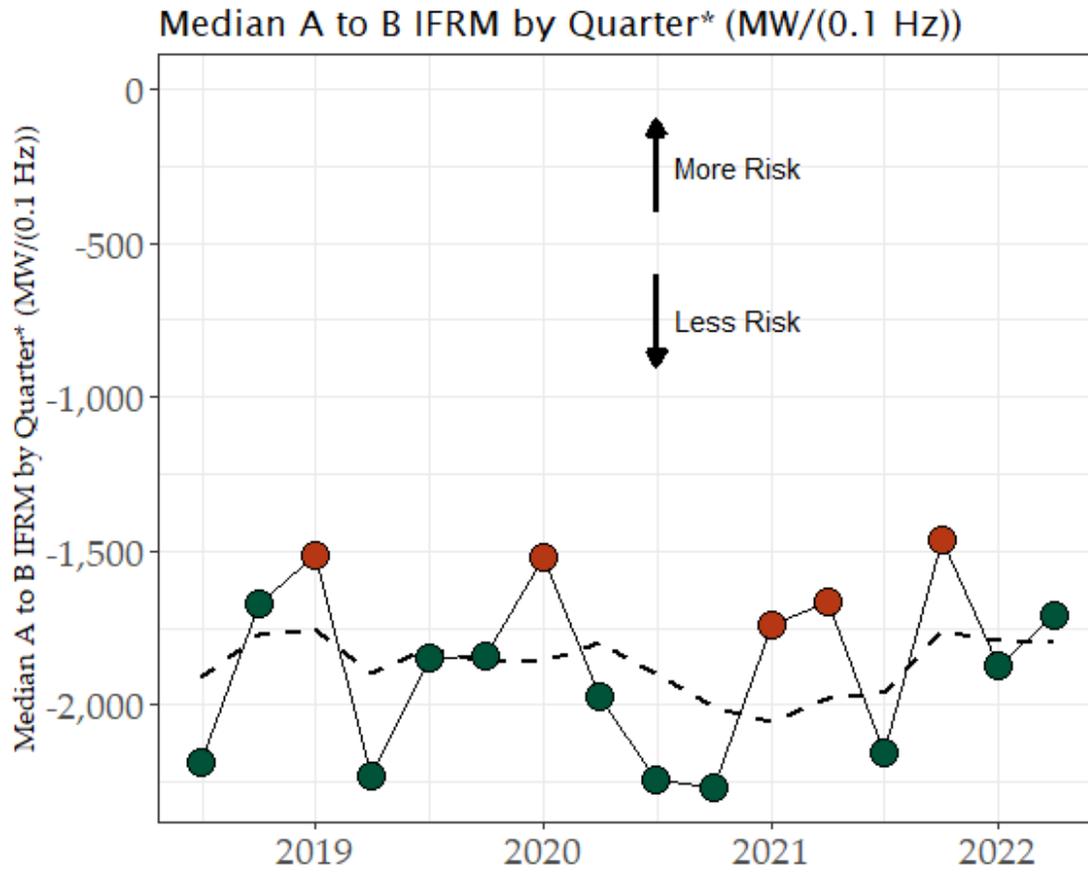
Average BAAL Exceedance Minutes per BA



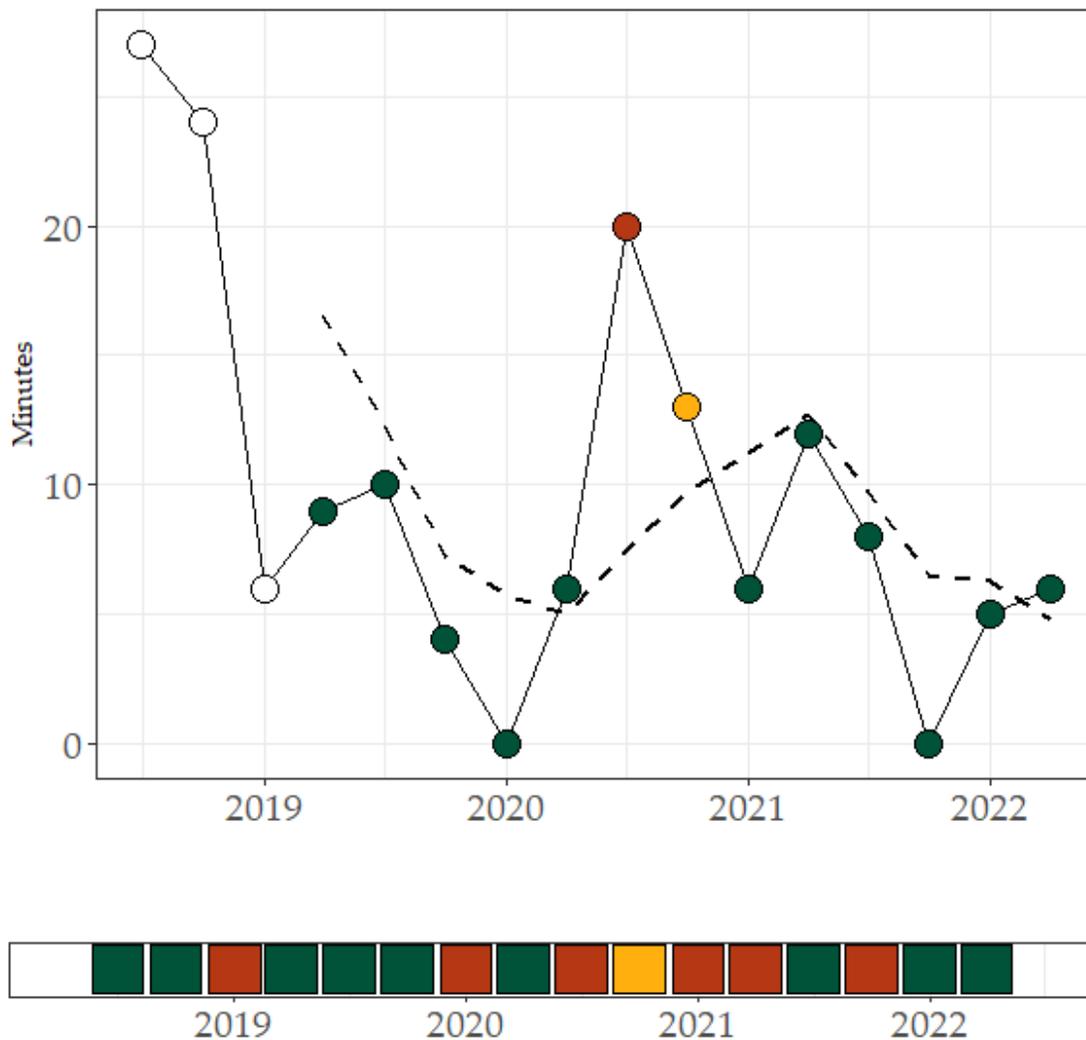
Quarterly Evaluation

In Q2 2022, the Average BAAL Exceedances Greater than 20 Minutes per BA was below the running mean (green), but the Average BAAL Exceedance Minutes per BA was slightly above the running mean (yellow). The reason for this is that one moderately-sized BA went from 2,305 exceedance minutes in Q1 to 3,772 minutes in Q2. Although the average number of minutes was slightly higher in Q2 than it had been for the three preceding quarters, it is less than any quarter before that. Therefore, even though the indicator is technically “yellow” in Q2, the multi-year trend reflects continually improving area control.

Indicator 6



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

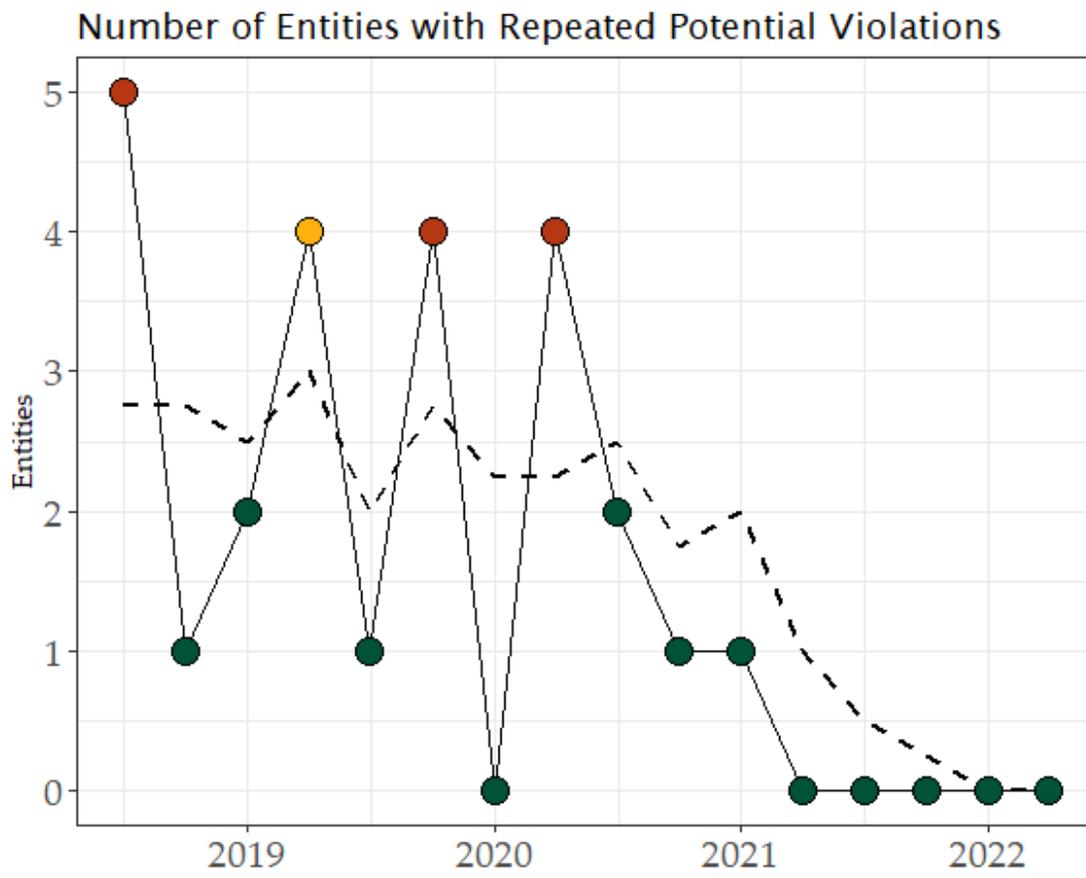


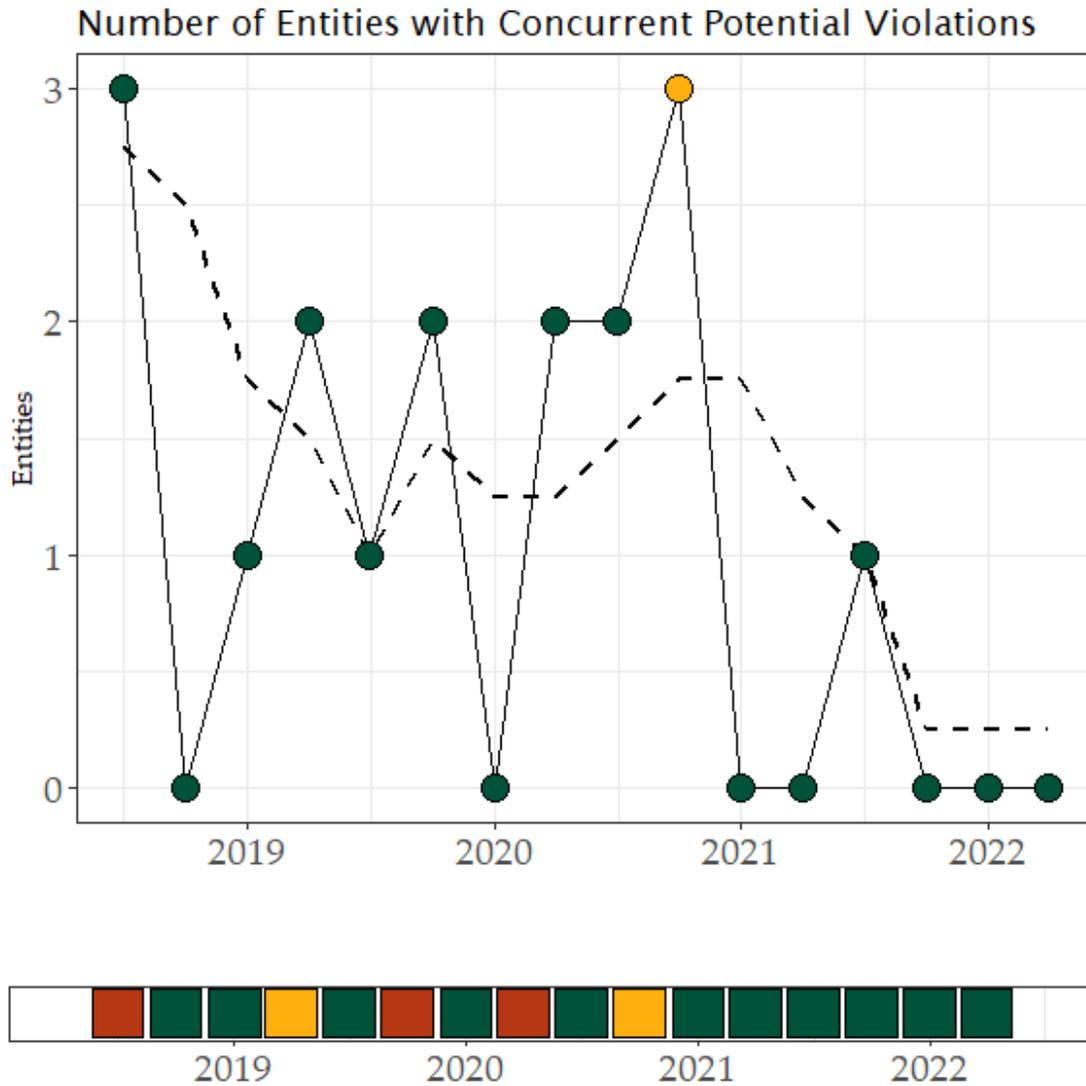
Quarterly Evaluation

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 Q2 of 2022, (March–May 2022) the median IFRM decreased slightly, and the number of minutes during which the system frequency was more the 68 millihertz slightly increased above the rolling average of four quarters. The indicator remains green for Q2. The IFRM was based on seven events for the quarter, with all seven events showing excellent response.

Indicator 7





Quarterly Evaluation

The number of entities with repeated or concurrent potential violations was zero for Q2 of 2022. Consequently, this indicator is classified as “green.”