



# 2024 HRC Status – CUC Briefing

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- Following a set of strict mission planning guidelines designed to ensure the health, safety, and longevity of the HRC, the HRC has been operating since April, 2023
  - The 15V LVPS may not be powered on for more than 15ks at a time
  - There must be at least 30ks between "power-ON" blocks of HRC time
  - The HRC CEA temperature cannot exceed 10C during the time when the 15V LVPS is on
- In December of 2023, the detector experienced a large ( $> 2\text{C}$  excursion) from the predicted temperature
  - Observations were halted while the thermal model was evaluated
    - The initial thermal model was developed with a very limited set of data
  - The model was refit with 9 months of available data and the HRC resumed observations in the end of January, 2024
- To account for continued gain drop, HRC HV settings were raised by two steps each on both detectors (1 step per top and bottom plates)

# HRC Goals for the next year



- Complete work for on board HRC thermal and voltage monitor to enable autonomous safing – FOT lead
- Continue revisions to HRC thermal model