

# Results - SKW-18

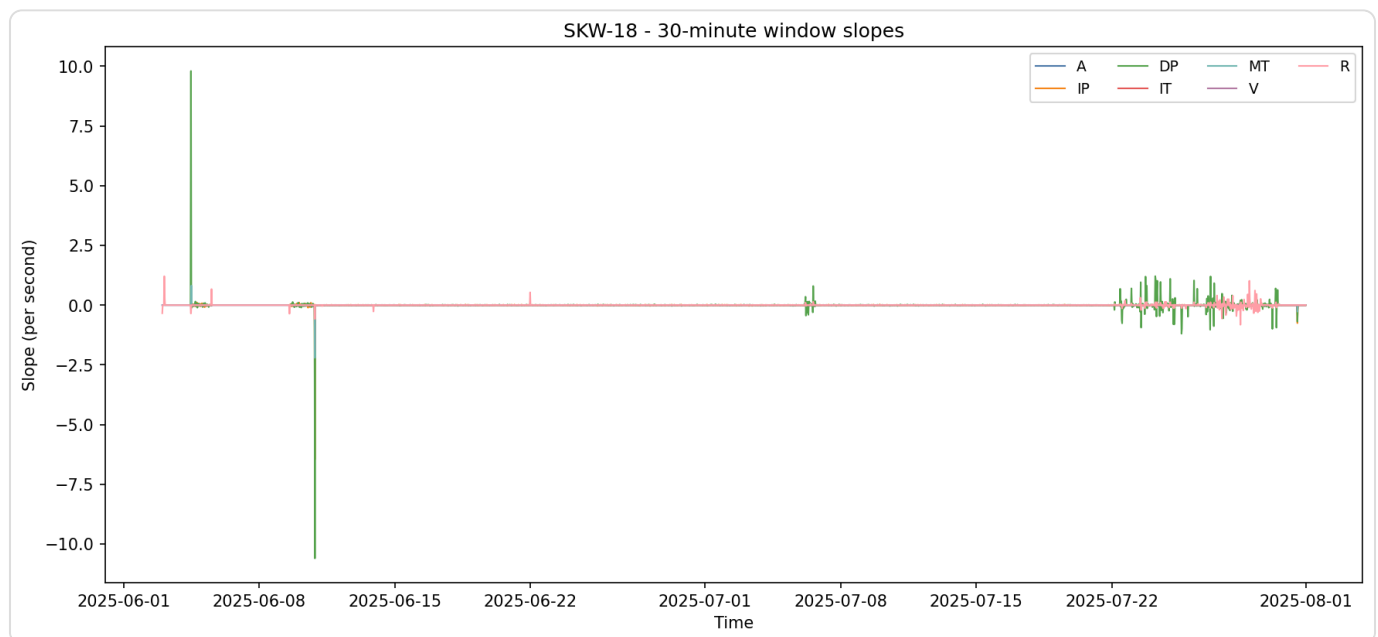
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## Applied Rules

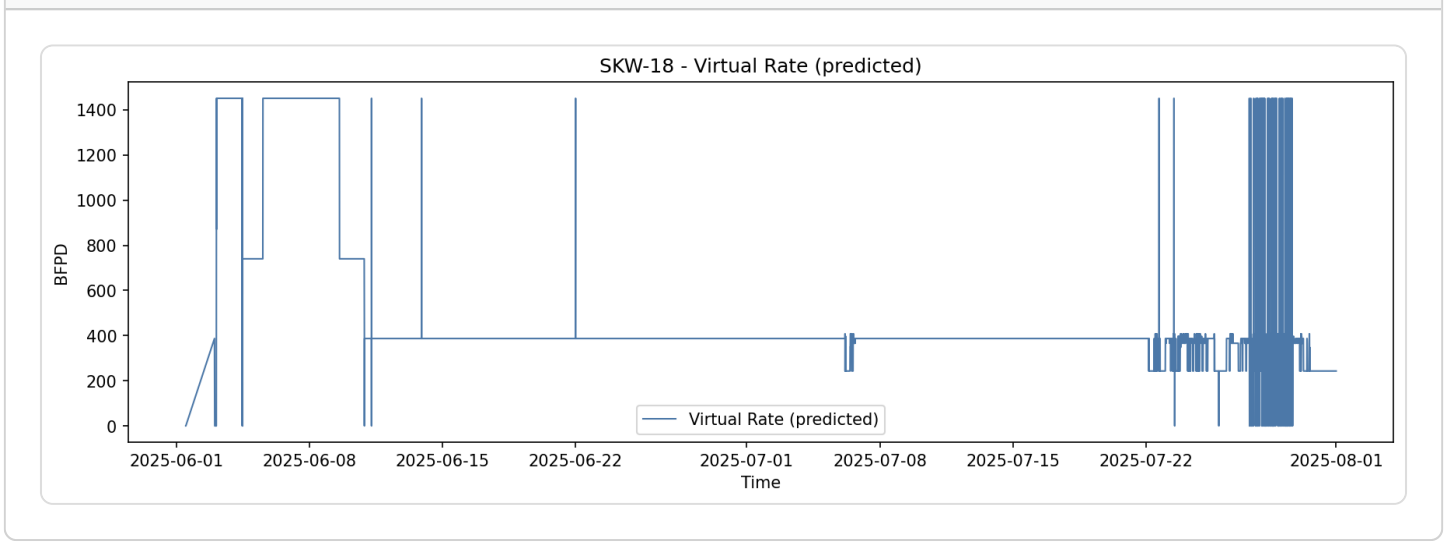
1. Grouped every 3 hours (6 data points, each 30 minutes apart).
2. Ignore the "Running" status when determining the dominant status.
3. If there are 3 or more non-"Running" statuses within the 3-hour group, proceed with the prediction:
  - If one status appears most frequently, select it as the dominant status.
  - If there's a tie, choose the one most frequent throughout the day (only among tied statuses).
4. If there are fewer than 3 non-"Running" statuses, classify the entire group as "Running".
5. When Amps and Freq are 0, and the slopes of IP, DP, IT, MT, and V are 0 within a tolerance, it is identified as EDP.

## 30-minute Window Slopes

Slopes for A, IP, DP, IT, MT, V, R (unit: per-second slope from linear fit within each 30-minute window).



## Virtual Rate (Predicted)



**Failure Prediction Table** Saved CSV: /Users/m/Documents/BE copy/data/output/SKW-18\_failure\_prediction\_30min.csv

Window_Start_Time	Prediction	Status	Recommendation
2025-06-03 00:00:00	0	Running	nan
2025-06-03 00:30:00	11	Shut-in	nan
2025-06-03 01:00:00	11	Shut-in	nan
2025-06-03 01:30:00	11	Shut-in	nan
2025-06-03 02:00:00	11	Shut-in	nan
2025-06-03 02:30:00	0	Running	nan
2025-06-03 03:00:00	0	Running	nan
2025-06-03 03:30:00	0	Running	nan
2025-06-03 04:00:00	0	Running	nan
2025-06-03 04:30:00	0	Running	nan
2025-06-03 05:00:00	0	Running	nan
2025-06-03 05:30:00	0	Running	nan
2025-06-03 06:00:00	0	Running	nan

Showing up to 500 rows. Full file saved to /Users/m/Documents/BE copy/data/output/SKW-18\_failure\_prediction\_30min.csv.

**Detected Events (3-hour Dominant Status)**

Non-"Running" groups are highlighted.

**2025-06-03 00:00:00–03:00:00: Shut-in**

Date	Group Start	Group End	Non-Running Count	Dominant Status
2025-06-03	2025-06-03 00:00:00	2025-06-03 03:00:00	4	Shut-in
2025-06-03	2025-06-03 03:00:00	2025-06-03 06:00:00	0	Running
2025-06-03	2025-06-03 06:00:00	2025-06-03 09:00:00	0	Running
2025-06-03	2025-06-03 09:00:00	2025-06-03 12:00:00	0	Running
2025-06-03	2025-06-03 12:00:00	2025-06-03 15:00:00	0	Running
2025-06-03	2025-06-03 15:00:00	2025-06-03 18:00:00	0	Running
2025-06-03	2025-06-03 18:00:00	2025-06-03 21:00:00	0	Running
2025-06-	2025-06-03	2025-06-04	0	Running