The United Illuminating Company **Witness: Rob Whelan**
James Mader

Docket No. 26-08-08

Date Submitted: April 2, 2026

PMUI-011 Q:

Please provide additional details on the circuit for PRJ-003790. Specifically, please detail any overload conditions and how the proposed NWS provides load relief.

PMUI-011 A:

New Haven Project (PRJ-003790) is not driven by a traditional thermal overload condition or forecasted capacity deficiency. Rather, the circuit has experienced frequent routine outages, many of which originate upstream of the Hill Regional Career High School service point.

As reflected in the project's technical analysis and supporting materials, the New Haven BESS Microgrid is designed to provide resilience-based load relief by electrically isolating the critical facility—and, when conditions permit, an adjacent circuit segment—during outage events. Modeling demonstrates that Tier 1 islanding would have avoided 100 percent of historical unexpected outages affecting the critical facility, while Tier 2 islanding would have avoided approximately 98.7 percent of historical outages affecting the expanded island.

By supplying islanded load locally during outages, the BESS reduces customer outage hours, improves realized reliability performance, and supports continuity of operations at a designated emergency shelter without deferring or replacing a planned traditional infrastructure upgrade. The project's sizing and configuration were optimized to balance islanding success probability, outage duration coverage, and integration with existing on-site solar and CHP resources.

For avoidance of doubt, while the project may be dispatched for secondary purposes such as peak load reduction when not responding to outage events, voltage support was not identified as a primary or secondary driver of the New Haven BESS Microgrid's need, sizing, or approval.

The New Haven BESS Microgrid project was approved by the Authority in a separate proceeding, Docket No. 22-06-05[1], pursuant to Public Act 22-55[2], as a resilience-focused project addressing outage performance rather than a traditional overload condition. The information provided here is

[1] Docket No. 22-06-05 Final Decision
[2] CT. P. A. 22-55

intended to supplement the record and should not be construed as re-justifying, re-scoping, or re-screening the approved project under the Non-Wires Solutions process.