Case Study, Lessons Learned - UL
Involvement in ENERGY STAR® Program

• UL was one of the first organizations to earn recognition by the EPA as an approved certification body.
• EPA recognized CB for 44 product categories

• Global laboratory options for testing, with several EPA-recognized labs around the world
• Testing Laboratories around the world that can perform testing on over 35 ENERGY STAR® product categories
Involvement in the Data Center Storage Program

- EPA Recognized Certification Body
- One EPA Recognized Lab

Certification Services Offered
- SMTL/WMTL
- 3rd Party Lab Data Review
- Testing and Certification through our recognized lab
Overview of Steps Required for Certification

1. Partner – apply for partnership through the ENERGY STAR manufacturer Partnership Agreement
2. Partner – Apply for Product to be Tested (UL Lab, WMTL/SMTL, 3rd Party Lab)
3. UL – Review test data
4. UL – Issue Results/Certification and report data to EPA
5. Partner – Begin to label product according to the labeling guidelines
Issues

1. Assembling family models in a way that satisfies the EPA’s submission requirements.
   a. Consistency in reporting all family models under the same line on the Qualified Product List rather than a new line for each
   b. Issues with text entry length restrictions

2. Large amount of data required to be reported to EPA.
   a. The data to be submitted to EPA is entered into a form by the manufacturer and test lab then reviewed by UL to help avoid errors
   b. A reduction of entry points may also assist in reducing errors.
Notes

- ENERGY STAR has some requirements on top of the Emerald Specification
- Power meter calibration is required
- Power supply must meet 80 Plus silver requirements
- Remember that ENERGY STAR has set requirements for:
  - Ambient Temperature
  - Relative Humidity
  - Input Voltage Tolerance
  - Frequency Tolerance
  - Total harmonic distortion
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THANK YOU.