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September 18, 2020

U.S. Election Assistance Commission  
1335 East West Highway, Ste. 4300  
Silver Spring, MD 20910

**Re:** ECO-01389 – Alternate Part and Clerical Changes.

Dear Mr. Lovato,

At the request of Hart InterCivic, SLI is providing an assessment of ECO-01389, including supporting documentation provided by Hart InterCivic, to determine if this change is De Minimis, and no additional testing is required.

**Summary Description:**

ECO-01389 serves two primary purposes: the addition of an alternate equivalent circuit board component on the Approved Manufacturers List, an updated revision of the same part, and to do clerical housekeeping on manufacturing documentation.

**Reference Documents:**

- EAC 2005 Voluntary Voting System Guidelines (VVSG) Volume II, Sec. 1 & 4
- EAC Voting System Testing and Certification Program Manual V. 2, Sec. 3.4 & 3.5

**Documentation used in SLI's Assessment:**

- ECO-01389 Summary - Alternate Part and Clerical Changes to Aid Manufacturing 4005662 A00
- 4005662A\_Supporting\_Documents
  - TI Application Report for TPS54540BDDA.pdf
  - 2005710 Rev E BOM.pdf
  - USB Cables Drawings:
    - 1005237C USB 2.0, A-B, 0.75m, Std No-Ferrite.pdf
    - 2005311B-USB-Custom A - Std B\_2M.pdf
    - 2005312D Verity Daisy-Chain Cable (1).pdf

- 2005314C-USB Pigtail.pdf
- 2005403C-USB30-A-A-0.3M-1.pdf
- 2005404G USB A to B, Crossover, 6ft.pdf
- 2005408 Rev C USB A Plug to Custom A Socket 7.5in - transmit (1).pdf
- 2005416D USB 2.0, A-B, 2m, Standard (1).pdf
- 2005440 Rev C USB A Plug to Custom A Socket 7.5in - ACOD DRIVE BAY PIGTAIL 20150803.pdf
- Data Sheets
  - tps54540 – TPS54540
  - tps54540b – TPS54540B

**Conclusion:**

SLI performed a comparison of key specifications for the TPS54540DDA, 5-A step-down DC-to-DC converter and their preferred replacement the TPS54540BDDA. Analysis showed the manufacturer specifications are equivalent or better for the preferred replacement with respect to reliability, performance characteristics, ESD ratings, and electrical characteristics.

All proposed clerical corrections on manufacturing documentation is appropriate.

SLI has assessed the propose changes in ECO 01389, including supporting documentation. The requested change does not affect the system’s reliability, functionality, capability, operation, or software. SLI considers the nature of this change to be De Minimis and therefore not to affect the Federal certification status for all applicable Verity releases. No additional testing is required at this time.

As required under section 3.4.3 of the EAC's Voting System Testing and Certification Program Manual Version 2.0, Hart InterCivic has provided the necessary information to verify the ECO 01389 change is De Minimis.

If you have questions regarding this assessment, please contact Darrick Forester.

Sincerely,



Traci Mapps  
Director