



## ENGINEER CHANGE ORDER (ECO) ANALYSIS FORM

**Manufacturer:** MicroVote

**System:** MicroVote EMS 4.4

**ECO Number:** 126

**ECO Description:** EMS Source code modification

**Overview:**

Modification to source code in EMS software (V4.4.6.0 -> V4.4.7.0) to improve trapping of stray marks and batch count display. Revised code in EMS V4.4.6.0 to:

- Improve user interface error trapping for stray marks detected in margin of For Office Use Only section during scanning of ballot cards.
- Improve the resetting of batch count when selecting new precinct during scanning of ballot cards.
- Updated Advanced Installer to version 17.1.1 and installation document.

New EMS build is V4.4.7.0

**Supporting Documentation:**

ECN 126 - ECN 126 - Modify EMS software to trap stray marks and improve batch count display.pdf (*MicroVote ECO*)  
DO2.27TDP-Y.doc (*TDP Appendix Y, Build and Installation Instructions, Election Management System*)

**Engineering Recommendation:**

Source code review, technical documentation review, and functional testing performed to approve change. Testing consisted of recreating the EMS 4.4 (4.4.7.0) using the updated TDP (DO2.27TDP-Y) and executing a smoke test with an election utilizing every component of the previously certified equipment. No issues were encountered. It was demonstrated that the updates did not adversely impact the system's overall functionality or system operation. Trusted builds were generated during testing. Testing was deemed adequate to verify successful implementation. No additional testing required.

**Engineering Analysis:** No Additional Testing Required

**Reviewer:**

Wendy Owens

Printed Name

*Wendy Owens*

Signature

06/15/2020

Date

**Approver:**

Michael L. Walker

Printed Name

*Michael L. Walker*

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