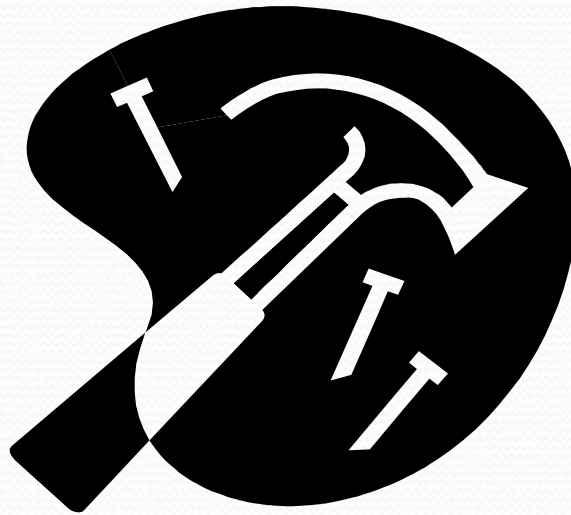


# Current Test Deck Procedures



**SBOE Election Operations**

# Doing what's needed to get the job done



# Test Deck Theory

A test deck must be prepared in order to test the logic and accuracy of the Voting Machine's software.

# Test Deck Theory Continued

Each county board shall prepare a test deck to verify:

- BMD ballot configuration
- Accuracy of BMD ballot marks
- Op-Scan ballot configuration
- Accuracy of Op-Scan to count votes

# Test Deck Creation

Comprehensive Election Sub-decks:

- Election Verification Vote
- Pattern Vote (Includes Under-Vote)
- Cross Endorsement (General Election)

## Test Deck Creation

### Comprehensive Election Sub-decks:

- Random Vote
- Blank Ballot Vote
- BMD Print Validation Ballot  
(Mark All Candidates)
- BMD Random Vote

# Test Deck Creation

## Standard Election Sub-decks:

- Blank Ballot
- Multiple Scenario Voted Ballot
- BMD Ballot

# Election Verification Vote

- Test every position on the ballot to ensure that votes cast are being recognized by the scanner and marked correctly by the BMD.



# Pattern Vote

- Provides test results which net unique results for each candidate in a given race
- Will test for the presence of under-votes when there is at least one multiple vote for contest on a ballot

## Over-vote

- Only the correct number of candidates can be voted for in any given contest
- No more candidates than the number allowed can be selected (BMD)
- Alerts the voter of an over-vote.

# Under-Vote

- BMD Recognizes when less than the number of candidates allowed have been selected by a voter
- Recognizes if an office has been either accidentally or intentionally missed by a voter
- Alerts the voter of an under-vote

# Under-Vote

## SCANNER

- Accepts an under-voted ballot

# Random Vote

- Conducted to ensure that marks made in voting positions or sensitive areas that are configured for a specific election are read as votes

# Random Vote

- Created to ensure that enough ballots are generated and cast to verify logic and accuracy
- Demonstrate that random voting patterns made are recognized and marked as valid votes



# Test Decks: What Changed?

# Amended Test Deck Procedure

- Overvote subdeck – replaced with print validation ballot (net savings approx 10 ballots per ballot style)
- Undervote subdeck- incorporated and tested via pattern testing (net savings approx 10 ballots per ballot style)



# Amended Test Deck Procedure

- Random subdeck- reduction from 20% to 10% of previous subdecks.
- BMD- print validation ballot(1) ballot, validates bmd is capable of printing or marking ballot, allows for confirmation of overvote via optical scanner.

# Amended Test Deck Procedure

- BMD-random subdeck (3) randomly marked ballots ensures: ballot definition coded correctly , BMD capable of marking ballot, all accessible interfaces functional
- BMD subdeck changes net *approx 30 ballots saved per ballot style*

# Amended Test Deck Procedure

- Run for record test utilizes standard test deck, time savings realized by not having to run comprehensive test decks. (*net savings approx 40 mins per ballot style*)

# Amended Test Deck Procedure

- Only Pattern and Cross endorsement ballots may be pre-marked via county designated vendor, following formula prepared by CBOE


# Amended Test Deck Procedure

- Blank ballot subdeck (5) ballots:
  - Validates proper message to voter
  - Verifies vote tallies non-incremented in such circumstance

# Amended Test Deck Procedure

## Blank Ballot Subdeck:

*Although this is an additional subdeck, the inclusion does not impact or affect the time savings as other subdeck routines have been eliminated or amended to allow for a manageable test method*



Any suggestions or recommendations  
for improving the process can be sent  
to:

**[election\\_ops@elections.state.ny.us](mailto:election_ops@elections.state.ny.us)**



# Q & A