

Logic & Accuracy Testing

Provincial Elections

(2024-03-28)



Objectives

- **Logic & Accuracy (L&A) testing seeks to prove the system and its components are accurate and performing as intended by comparing tabulation machine results to the known, expected results.**
 - Verify that election specific data and ballots include every contest, candidate, and polling division;
 - Ensure all components of the voting system are functional; and
 - Verify the voting system can interpret voter markings and record and report vote totals accurately.
- **L&A testing cannot start until ballots are proofed and finalized and must be completed before voting begins.**
- **Very tight timeframe.**
 - After close of nominations and before advance polls.

Preparation

- **Election Management System loaded with data:**
 - Electoral Districts, Polling Divisions
 - Returning Offices, Clusters & Polling Stations
 - Contests, Candidates, Party Affiliations
- **2 Memory cards programmed for each tabulation machine.**
- **Specific labels and checklist printed for each tabulation machine.**



Ordinary/Ordinaire
P03-C01
 Lorne Community Hall - 1
 31 rue Albert St
 Lorne

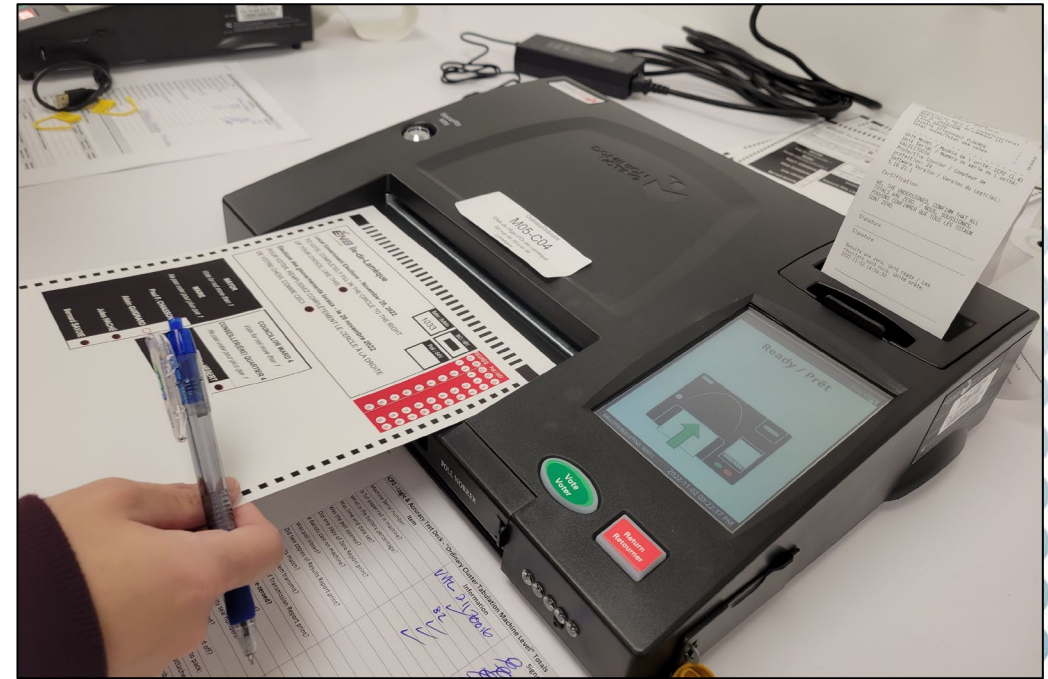
ICP2 - Logic & Accuracy Test Deck - "Ordinary Cluster Tabulation Machine Level" Totals			
Item	Information		Signed off
Machine Serial number:			
Is full paper roll in machine?			
What is the battery percentage?			
Was time and date set?			
Was the poll opened?			
Did one copy of Zero Report print?			
# Ballots cast on machine?			
Was poll closed?			
Did two copies of Results Report print?			
Did results match?			
Did ICP2 modem transmit?			
Did one copy of Transmission Report print?			
Was machine re-zeroed?			
Was machine re-opened?			
Was a Zero Report printed?			
3 INTAB security seal numbers:	#	#	#
Were 3 seals applied?			
Was the machine powered off?			
Final approval ENB sign off to pack:			
Was matching cluster tag attached to case?			
Case INTAB security seal number:	#		
Ordinary Cluster:	P03-C01		
DVS Ballot styles used in this cluster:			
2310			
PED/CÉ: 03	Restigouche-Chaleur		
Position:	MLA / Député, 03		
Candidates	Votes for candidate as on ballot	Number of Votes – Manual Count	Matches Tabulator
Anne S BARD-LAVIGNE			
Progressive Conservative Party of New Brunswick			
Marco LEBLANC			
Liberal Party of New Brunswick			
Alexander GAGNE			
New Brunswick New Democratic Party			
Rachel Marie BOUDREAU			
Parti Vert N.B. Green Party			

Preparation

- **“Test decks” of hand-marked paper ballots generated appropriate for each tabulation machine.**
 - Includes an assortment of marks (checkmarks, dots, circles, etc.).
 - Includes every candidate/choice voted at least once and includes overvotes, undervotes, and unmarked ballots.
 - Known voting results for each test deck.
- **Test deck sizes:**
 - Returning Office tabulation machines: 350+ ballots (Each ballot in NB)
 - Polling Station tabulation machines: 25+ ballots (Only ballots from cluster)

Testing

- Specific test deck ballots deposited through specific tabulation machines.
- Audio-vote tabulation machines conduct a session and deposit the ballots.
- Poll is closed on each machine.
- Each result report is printed.
- Each result file is transmitted to the reporting server.



Verification

- **Verify that results reports match known voting results.**
- **Verify that results files load and display in the results server.**
- **Investigate any discrepancies and document the cause.**
- **For unaccounted errors, quarantine the equipment involved and replace it. Restart process for that tabulation machine.**

Review & Shipping

- **Re-Zero each tabulation machine.**
- **Apply security seals to tabulation machines and cases and document seal numbers.**
- **Mark test deck ballots , seal and store them so they are not mistaken for actual election ballots.**
- **Retain and store all L&A checklists.**
- **Prepare and track shipments of tabulation machines to each returning office.**

Questions ?