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# Election Systems & Software

July 9, 2012

Ms. Patty Murphy  
Washington Office of the Secretary of State  
520 Union Avenue Northeast  
Olympia, Washington 98504-0229

Dear Ms. Murphy,

Please accept this letter and the enclosed documentation as the official application for the state certification of Election Systems & Software's (ES&S) Unity 3.3.0.1. On February 21, 2012, the Unity 3.3.0.1 voting system successfully completed Voting System Test Laboratories (VSTL) testing at Wyle Laboratories and is compliant to the FEC 2002 VSS Standard. The Unity 3.3.0.1 voting system includes pre-election and post-election software, voter-assist terminal, a precinct tabulator, and two central tabulators.

Washington State Certification		Unity 3.3.0.1
<b>Pre-Election Software</b> Ballot Definition Ballot Layout Election Media	Election Data Manager (EDM)	7.8.1.0
	AutoMARK Information Management System (AIMS)	1.3.257
	VAT Previewer	1.3.2907
	ES&S Image Manager (ESSIM)	7.7.1.0
	Hardware Programming Manager (HPM)	5.7.4.0
<b>Post-Election Software</b> Election Result Reporting Election Auditing	Election Reporting Manager (ERM)	7.5.8.0
	Audit Manager	7.5.2.0
	Log Monitor	1.0.0.0
<b>Tabulators</b>	Model 100	5.4.4.5
	Model 650	2.2.2.0
	Model 850	2.2.0.1
<b>Voter Assistance Terminal</b>	ES&S AutoMARK (A100 HW 1.0)	1.3.2907
	ES&S AutoMARK (A200 HW 1.1)	1.3.2907
	ES&S AutoMARK (A200 HW 1.3)	1.3.2907
	ES&S AutoMARK (A200 HW 1.3)	1.3.2907



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The Unity 3.3.0.1 voting system features a new product for Washington customers. The DS850 is ES&S' new central count tabulator that provides Washington customers with technology advances that other central count tabulators cannot provide. This high-speed, optical scan tabulator uses advanced cameras and imaging algorithms to simultaneously capture voter selections on the front and back of a ballot, evaluates the results, and sorts the ballots into bins. The DS850 digitally scans each ballot image and saves the image to the internal hard drive. On election night, a user will have the option to export the tabulated results, with or without copies of the ballot images, to a USB memory device for import into Election Reporting Manager (ERM).

### Several key usability benefits of the DS850 include:

- Optimal throughput rate of 350-400 ballots per minute
- Uninterrupted scanning process
  - User assigned sort settings to three specific bins allows the scanning process to continue uninterrupted
- Touch screen graphical interface
- Security locks and windows over the USB ports and electrical power supply
- Printed real-time audit logging capturing all user actions
- Utilizes USB Memory Devices for easy transport of election definition and results files

### Summary of recent activities with the DS850:

- Completed VSTL testing to the 2005 VVSG Standards on Volume & Stress and Data Accuracy
  - V&S- Successfully exercised 316 ballot positions in 450 ballot styles. Also successfully ran 5 Precincts of 100 ballots, 100 times for a total of 50,000 ballots.
  - Data Accuracy- Successfully scanned and processed 1,633,500 ballot positions accurately using all supported ballot sizes; therefore exceeding the minimum requirement.
- Florida State Certified February 9, 2012
  - Featured a 4-day, 192,000 mass ballot test, 100% accuracy
  - 17 Inch Primary with 3 languages, 20 contests, 47 oval positions/ballot
  - Approximately 9,024,000 oval positions read
- Jefferson County, CO- Republican Party Assembly, April 13-14, 2012
  - 2-day event with approximately 3100 ballots ran the first day and 7267 (2-page, 17") ballots ran the second day
  - 850 delegates on the ballot with voters selecting up to 24, along with 61 propositions
  - Approximately 10,367 ballots successfully scanned and processed
- New Jersey Certification of Unity 3.3.0.1 June 8, 2012

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Enclosed with ES&S' application is the Unity 3.3.0.1 system overview, VSTL reports, software and hardware specifications, system operation and maintenance manuals and training materials.

If you have questions regarding ES&S' application of Unity 3.3.0.1 please do not hesitate to contact me via telephone at 402-938-1335 or via email at [chris.bruscino@essvote.com](mailto:chris.bruscino@essvote.com).

Sincerely,

A handwritten signature in cursive script that reads "Chris Brusino". The signature is written in black ink and is positioned above the printed name and title.

Chris Brusino  
State Certification Manager

Cc: Mr. Steve M. Pearson - Vice President, Certification

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