



## Documentation of System Certification

All components of the eSlate System have been tested and certified by Independent Testing Authority (ITA), the National Association of State Election Directors (NASSED), and the Colorado Secretary of State. This attachment includes documentation of the various testing and certification processes. The items here are arranged in the following order:

- Letter from Ciber (dated July 12, 2002) for the eSlate System currently certified by the Colorado Secretary of State
- Letter from Wyle Laboratories (dated July 16, 2002) for the eSlate System currently certified by the Colorado Secretary of State
- Letter and certificate from the Colorado Secretary of State approving eSlate System 2.1
- Certificate from the Colorado Secretary of State approving update for Tally 2.9.08

It is important to note that the eSlate is designed, developed and manufactured under ISO 9000 management system standards.

- Hart InterCivic's certificate for meeting ISO 9000 standards for design and development of the eSlate System
- Suntron's, the eSlate System components' manufacturer, certificate for meeting ISO 9000 standards for design and development of the eSlate System

**wyle**  
laboratories  
July 16, 2002

Hart InterCivic  
1650 Coal Creek Drive  
Suite E  
Lafayette, CO 80026

Attn: Ms. Sandy Green

Subject: ITA Qualification Testing of the eSlate DRE Precinct Voting System, Source Release JBC 1.16.03 and eSlate 1.16.01.

Dear Ms. Green,

The Hart InterCivic eSlate Precinct Voting System and associated Machine resident firmware<sup>(1)</sup>, eSlate 1.16.01 and JBC 1.16.03, was subjected to functional testing to verify continued compliance with the Federal Elections Commission Standards for Punchcard, Marksense, and Direct-Recording Electronic Voting Systems, January 1990. Specifically, a source review of the revised JBC and eSlate releases was performed to ensure that the code continued to meet the source code design recommendations as referenced in the Standard. Additionally, regression testing was performed to verify continued functionality of the hardware using this release. The previously qualified release was JBC 1.15.08 and eSlate 1.15.07.

It was demonstrated that the eSlate DRE Precinct Voting System Hardware, using the aforementioned releases, successfully met this criteria and thus has been qualified to the Federal Elections Commission Standards for Punchcard, Marksense, and Direct-Recording Electronic Voting Systems, January 1990.

Please note that the qualification testing referenced herein is limited to the operation of the eSlate Precinct Voting System hardware and its machine resident firmware at the precinct level and as such, does not encompass any ancillary voting system software which typically resides on a personal computer for ballot definition activities, report canvassing, absentee voting, etc.

A final report documenting the source code review and regression testing performed will be issued under separate cover.

If I may be of further assistance, please feel free to give me a call at (256) 837-4411, ext. 590, or fax (256) 830-2109.

Sincerely,

  
Dawn K. Bates  
Contracts Manager

(1) The term firmware as used within the context of this letter is in reference to the software, which remains resident within the eSlate Precinct Voting System, and is required for its operation at the precinct level.

# **Software Qualification Test Report Addendum For Hart Intercivic**

## **Original Report 2.0 for**

BOSS version 2.5.03

Tally version 2.6.10

Ballot Now version 1.3.11

BOSS Data version 2.6.07

BOSS Security version 2.3.00

Tally Security version 2.2.00

BOSS2MBB version 1.05.02

Created November 1, 2001

**Addendum 1 for Hart System Version 2.1 created July 12, 2002**

## **Prepared For:**

**The National Association of State Election Directors**

**Prepared By: Shawn Southworth**

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**CIBER, Inc.  
Independent Test Authority**

# **ciber**

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**CIBER, Inc.  
7501 South Memorial Parkway  
Suite 107  
Huntsville, AL 35802**

# **ADDENDUM 1**

## **Change Release Amendment for Hart System version 2.1**

### **1 INTRODUCTION**

CIBER was requested by Hart Intercivic to review changes made to their previously qualified voting system software version 2.0 which consisted of the BOSS 2.8.08, Tally 2.8.21 and Ballot Now 1.4.07. The updated version is 2.1, created June 6, 2002.

### **2 REVISION DESCRIPTION**

On June 10, 2002, Hart Intercivic submitted to Ciber the system version 2.1 requirements which included a total of 22 changes from the previously qualified system version 2.0. Below is a summary of the change requirements :

#### **BOSS 2.9.0.4**

- MBB unique id user error.
- null string audio text defect.
- database forwarding failure
- polling place id not displaying on reports.
- text alignment on ballots

#### **TALLY 2.9.0.7**

- regedit database location changed
- datatype change from integer to long
- line printer buffer overflow
- final cumulative report defects
- report header now has voter and reporting precinct
- final cumulative report defects

#### **BALLOT NOW 1.5.9**

- Ballot stub support for 11x17 ballots
- Save CVR's if batch is not resolved
- "Vote Both Sides" must be at bottom of ballot as well as top
- Additional scanner support
- "Transferring" is misspelled on dialog
- Overvote flag defect
- Missing option boxes when printing
- Dual languages on ballot
- Text alignment defect
- Straight party voting logic
- Software speckle filter

### **3 APPROACH**

CIBER requested and was supplied with the System Qualification Report from Systest Labs in order to verify changes made to the current version of software. The source code and technical data package were reviewed and compared to the previous version to verify the changes outlined in the systems requirements documentation. All functional testing was performed on site at Harts' facilities and was found to perform as designed and met all FEC and Hart internal requirements standards.

### **4 RESULTS SUMMARY**

After reviewing the change release documentation and source code files, and performing functional tests on the changed areas of the application, CIBER recommends to the NASED committee that Hart Intercivics' System 2.1 be qualified and assigned NASED certification number N0304000021

October 23, 2001

Hart InterCivic  
1650 Coal Creek Drive, Suite E  
Lafayette, CO 80026

Attention: Mr. Neil McClure

Reference: Certification Recommendation

Subject: Qualification Testing of BOSS version 2.5.03, Ballot Now version  
1.3.11.0 and Tally version 2.6.10

Dear Mr. McClure,


This is to notify you that Qualification Testing performed on Hart InterCivic's election software system is complete. It has been demonstrated that BOSS version 2.5.03, Ballot Now version 1.3.11.0 and Tally version 2.6.10 has successfully met the required acceptance criteria of the Federal Election Commission Standards for Punchcard, Marksense, and Direct-Recording Electronic Voting Systems, January 1990.

It is upon completion of this testing that Ciber will recommend to the NASED committee that BOSS version 2.5.03, Ballot Now version 1.3.11.0 and Tally version 2.6.10 be certified and assigned NASED certification number N03040002503.

A final Qualification Test Report addressing those activities associated with the Software testing is being written and will be issued shortly.

Should you have any questions, please feel free to contact me.

Sincerely,



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Shawn Southworth  
Ciber  
ITA Practice Director  
7501 South Memorial Parkway  
Suite 107  
Huntsville, AL 35803



October 18, 2001

Neil McClure  
Hartintercivic  
Election Solutions Group  
1650 Coal Creek Drive, Suite E  
Lafayette, CO 80026

Subject: ITA Qualification Testing of the Hartintercivic JBC1000/eSlate3000 DRE  
Voting Machine; Revised Source Release 1.13.05

Dear Mr. McClure,

This is to notify you that we have completed a review of the revised machine resident source release, 1.13.05. The review was performed to ensure that the revised source release continued to meet the requirements of conformity to the FEC guidelines for software including reliability, robustness and maintainability.

Through regression testing, it was demonstrated that the revised source release 1.13.05 demonstrated continue functionality thus successfully meeting the required acceptance criteria of the Federal Elections Commission Standards for Punchcard, Marksense, and Direct-Recording Electronic Voting Systems, January 1990.

Please note that the source release reference herein is limited to the operation of the JBC1000/eSlate3000 DRE at the precinct level and as such, does not encompass any ancillary voting machine software which typically resides on a personal computer for ballot definition activities, report canvassing, absentee voting, etc.

A final change release report documenting the source review and regression testing will be forwarded to you under separate cover.

If I may be of further assistance, please feel free to give me a call at (256) 837-4411, ext. 590, or fax (256) 830-2109.

Sincerely,

  
Dawn K. Bates  
Contracts Manager

**STATE OF COLORADO**  
**Department of State**

Civic Center Plaza  
1560 Broadway, Suite 200  
Denver, CO 80202-5169

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**Donetta Davidson**  
Secretary of State

**William C. (Billy) Compton**  
Director, Elections Division

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September 9, 2002

Hart InterCivic  
Ms. Sandy Green  
1650 Coal Creek Dr.  
Suite E  
Lafayette, CO 80026

Dear Ms. Green:

I am pleased to inform you that System 2.1 appears to be in compliance with the requirements of the Colorado Revised Statutes. Therefore, the eSlate Direct Record Electronic Voting System with the following component upgrades: BOSS versions 2.9, Tally version 2.9, Ballot Now version 1.5, JBC version 1.16, eSlate version 1.16, and SERVO version 1.02 are hereby certified for use in the State of Colorado. Enclosed is a Certificate of Approval for the aforementioned equipment.

If this office can be of further assistance, please call 303-894-2200 ext. 3.

Sincerely,

Donetta Davidson  
Secretary of State

# CERTIFICATE OF APPROVAL

Awarded to:

## HART INTERCIVIC SYSTEM 2.1 DIRECT RECORD ELECTRONIC VOTING SYSTEM

*This shall certify that the eSlate Direct Record Electronic (DRE) Voting System or System 2.1, with associated upgrades for the following component: BOSS 2.9, Tally 2.9, Ballot Now 1.5, JBC 1.16, eSlate 1.16, and SERVO 1.02 has met the requirements of the National Association of State Election Directors (NASED), and the requirements in accordance with Colorado Revised Statutes Title 1, Article 5, Part 6. Therefore, System 2.1 is hereby certified for use in the State of Colorado.*

*Dated this 9th day of September, 2002  
Denver, Colorado*



*Donetta Davidson*  
Donetta Davidson  
Secretary of State

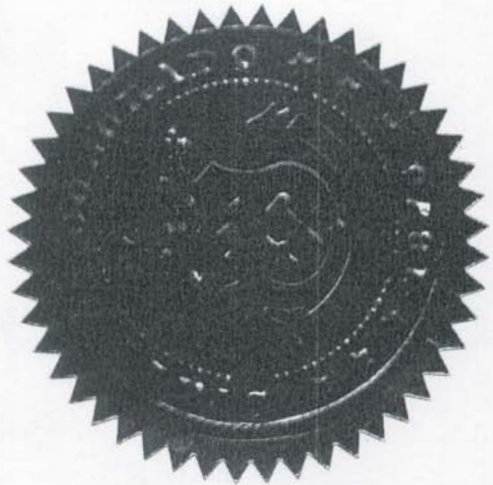
# CERTIFICATE OF APPROVAL

Awarded to:

HART INTERCIVIC  
TALLY VERSION 2.9.08

*This shall certify that updated software: TALLY, version 2.9.08, met the requirements of the National Association of State Election Directors (NASED), and requirements in accordance with Colorado Revised Statutes Title 1, Article 5, Part 6. Therefore, TALLY version 2.9.08 is hereby certified for use in the State of Colorado.*

*Dated this 18th day of October, 2002  
Denver Colorado*



A handwritten signature in cursive script, reading "Donetta Davidson", is written over a horizontal line.

*Donetta Davidson  
Colorado Secretary of State*

# Hart InterCivic, Inc.

1650 Coal Creek Drive, Suite E  
Lafayette, CO 80026

Underwriters Laboratories Inc.® (UL) issues this certificate to the Firm named above, after assessing the Firm's quality system and finding it in compliance with

## ISO 9001:1994

EN ISO 9001:1994; BS EN ISO 9001:1994; ANSI/ASQC Q9001:1994

for the following scope of registration

**3579 (US) : Office Machines, Not Elsewhere Classified**

**The design and servicing of electronic voting systems.**

This quality system registration is included in UL's Directory of Registered Firms and applies to the provision of goods and/or services as specified in the scope of registration from the address(es) shown above. By issuance of this certificate the firm represents that it will maintain its registration in accordance with the applicable requirements. This certificate is not transferable and remains the property of Underwriters Laboratories Inc. ®.

File Number: A11379

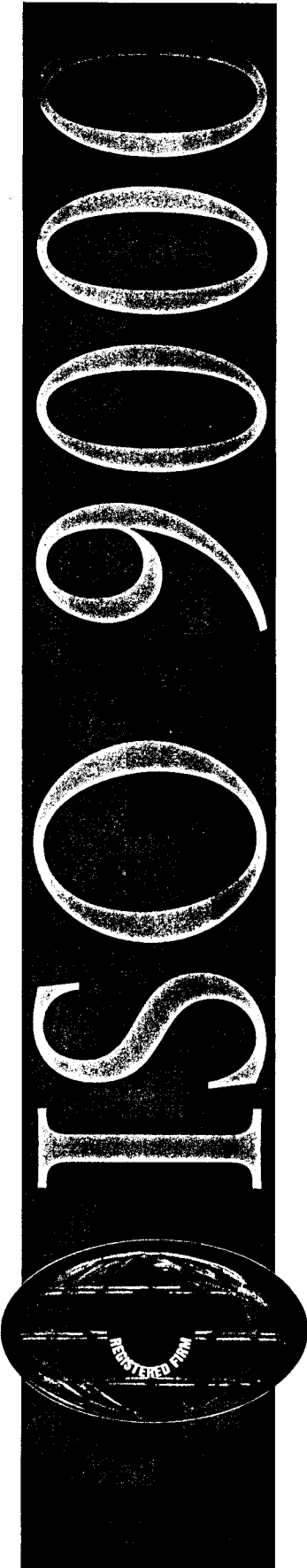
Volume: 1

Issue Date: June 4, 2002

Renewal Date: December 15, 2003



S. Joe Bhatia  
Executive Vice President and  
Chief Operating Officer - International





# CERTIFICATE OF REGISTRATION

## Quality Management System

*This is to certify that:*

**Suntron Corporation**  
**1111 Gillingham Lane**  
**Sugar Land**  
**Texas**  
**USA**  
**77478**

*Hold Certificate No: **FM 71194***

*and operate a Quality Management System which is Registered to QS-9000:1998 (Based on and including ISO 9001:1994). This assessment has been conducted in accordance with the requirements of QS-9000 Appendix B, Code of Practice for the following scope:*

The design and manufacture, assembly test of printed circuit boards, cables, plastics, batteries, sheet metal and the integration of electrical systems for the industrial and commercial electronics industry.

This certificate is traceable to this company's original registration certificate No. CERT-8534-2000-AQ-HOU-RAB R2 dated November 15, 1996 and issued by Det Norske Veritas.

*For and on behalf of BSI, Inc.:*

*President*

**Issue Date: 15 Nov 1996**

**Latest issue: 18 Dec 2002**

**Page: 1 of 1**



*This certificate remains the property of BSI, Inc. It does not expire but is contingent on meeting agreed contractual requirements. Validity is maintained through a process of continual assessments and strategic reviews. To check validity call 703 437 9000 or visit [www.bsiamericas.com](http://www.bsiamericas.com). To be read in conjunction with the scope of registration shown above or on the attached appendix.*

Americas Headquarters: BSI, Inc. 12110 Sunset Hills Road, Suite 140, Reston, VA 20190, USA.





## **eSlate System Reports**

### **List and Descriptions**

Numerous standard reports are available from the eSlate System components. This attachment includes descriptions of the standard reports available from the eSlate System software applications. The applications are listed and described in the following order:

- Ballot Origination Software System (BOSS)
- Ballot Now absentee/mail balloting application
- Tally tabulation application
- SERVO equipment and election record management application.