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ATTACHMENT C
TEST REPORT 52501-06 REVISION A

REPORT NO. 52501-06
INSPECTION, TEST, AND EVALUATION
OF THE
ACCUVOTE TSX (AVTSx) MODEL D DRE VOTING MACHINE

1A

SUBMITTED TO
Diebold Election Systems
1611 Wilmeth Road
McKinney, TX 75069

WYLE LABORATORIES, INC.

WYLE is a Nationally Recognized Testing Laboratory (NRTL)

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**TEST AND EVALUATION REPORT
WYLE LABORATORIES, INC.**

7800 Highway 20 West, Huntsville, Alabama 35806

Purchase Order No. P2005-000011

REPORT NO. 52501-06
INSPECTION, TEST, AND EVALUATION
OF THE

ACCUVOTE TSx (AVTSx) Model D DRE VOTING MACHINE

| A

GENERAL: This Report gives the results of the inspection, test, and evaluation of the AccuVote TSx (AVTSx) Model D DRE Voting Machine for compliance with the applicable requirements of the standard for "Safety of Information Technology Equipment, UL 60950-1". Mr. Don Vopalensky authorized this investigation. Samples in good condition were provided by the client and tested at Wyle Labs' Huntsville facility.

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Applicant: DIEBOLD ELECTION SYSTEMS
1611 WILMETH ROAD
MCKINNEY, TX 75069

Contact: Mr. Don Vopalensky
Telephone: 
Fax: 

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PRODUCT DESCRIPTION

PRODUCT COVERED:

AccuVote TSx (AVTSx) Model D DRE Voting Machine. | A

PRODUCT DESCRIPTION:

The product covered by this report is a desktop microprocessor controlled voting machine. It consists of a power supply, printer, PCMCIA and DRAM storage, battery backup, and other electronic circuitry. The total weight of the unit is approximately 13 kg and is considered moveable equipment. This product is Class I equipment intended for use in a Pollution Degree 2 environment. This unit has been evaluated to the requirements of UL 60950-1, First Edition.

AVTSx

- Model No.: AVTSx Model D | A
- Serial No.: 242712

ELECTRICAL RATINGS:

100-120 Vac, 10 A, 60 Hz

TEST PERFORMANCE

A representative sample of the product was tested in accordance with the Standard for "Safety of Information Technology Equipment", UL 60950-1, First Edition.

The following Table indicates the Specimen's conformity to the applicable test criteria.

Description	Clause	Compliant/Non-Compliant
Input Current	1.6.2	Compliant
Durability	1.7.13	Compliant
Access to Energized Parts	2.1.1.1	Compliant
Discharge of Capacitors in the Equipment	2.1.1.7	Compliant
Stability	4.1	Compliant
Mechanical Strength and Stress Relief	4.2.2 – 4.2.5, 4.2.7	Compliant
Maximum Temperature	4.5.1	Compliant
Touch and Protective Conductor Current	5.1.2	Compliant
Electric Strength	5.2.2	Compliant
Abnormal Operating and Fault Conditions	5.3	Compliant

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CONCLUSION

A representative sample of the product covered by this report has been evaluated and found to comply with the applicable requirements of the standard for "Safety of Information Technology Equipment", UL 60950-1, First Edition.

<p>STATE OF ALABAMA } COUNTY OF MADISON }</p> <p><u>Robert D. Hardy</u>, being duly sworn, deposes and says: The information contained in this report is the result of complete and carefully conducted testing and is to the best of his knowledge true and correct in all respects.</p> <p><u>Robert D. Hardy</u></p> <p>SUBSCRIBED and sworn to before me this <u>30th</u> day of <u>March</u>, 2006</p> <p><u>Elizabeth M. Davis</u> Notary Public in and for the State of Alabama at Large</p> <p>My Commission expires <u>Sept 15</u>, 200<u>7</u></p>	<p>Wyle shall have no liability for damages of any kind to person or property, including special or consequential damages, resulting from Wyle's providing the services covered by this report.</p> <p>TEST BY: <u>Janifer Thomas</u> <u>3/27/06</u> Janifer Thomas, Test Technician Date</p> <p>APPROVED BY: <u>Frank Padilla</u> <u>3-27-06</u> Frank Padilla, Test Supervisor Date</p> <p>(c1)</p> <p> AGGREGATED CERT. # 845.01</p>
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GENERAL REQUIREMENTS AND DEFINITIONS

Recognized – Identifies any component, part, or subassembly covered under the recognition service of an NRTL (US) or a CO (Canada) and intended for use in Listed, Certified, or Recognized products.

Listed – Identifies any product covered under the Listing or Certification service of an NRTL or a CO.

Construction Details – For specific construction details, reference should be made to the following photographs and descriptions. All dimensions are approximate unless specified as exact or within a tolerance. In addition to the specific construction details described in this report, the following general requirements also apply.

1. **Mechanical Assembly** – Components such as switches and wiring terminals are reliably mounted and prevented from shifting or rotating by screws or the mounting format.
2. **Corrosion Protection** – All ferrous metal parts are suitably protected against corrosion by painting, plating, or similar process.
3. **Internal Wiring** – Internal wiring is reliably routed away from sharp or moving parts. Internal wiring leads terminate in soldered connections mechanically secure prior to soldering.
4. **Current Carrying Parts** – All current carrying parts are of silver, copper, or a copper base alloy.
5. **Accessibility of Live Parts** – All uninsulated live parts are housed within an enclosure and adequately protected from contact by the articulated finger probe.
6. **Over-Voltage/Overload Protection** – The models are protected against over-voltage by a protection inherent in the power supply.
7. **Markings** – The unit is marked with the manufacturer's name, model number, electrical ratings, and cautionary markings where required.
8. **Safety Instructions** – Safety Instructions shall be provided with each unit that is shipped from the factory. The instructions may be in the form of a separate booklet, or sheet, or may be part of the operator's manual, but in any case, they shall be separated in a format from other instructions and shall appear before any operating instructions. The letters in text and illustrations in the instructions shall be clearly legible. "IMPORTANT SAFETY INSTRUCTIONS" and "SAVE THESE INSTRUCTIONS" shall be emphasized and clearly distinguishable from the Instructional Information of the Manual.

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GENERAL REQUIREMENTS AND DEFINITIONS (Continued)

9. **Definitions** – Unless specifically stated otherwise, the following general definitions, terminology, and construction details apply:
- a) **Dimensions** – All dimensions specified are approximate and are within plus or minus one-tenth of the base unit, unless stated otherwise.
 - b) **Listed** – Listed or certified by an accredited Certification Organization.
 - c) **Component** – Accepted by an accredited Certification Organization with certain restrictions, and appears in that organization's list of accepted components.
 - d) **Recognized (or Listed) Equivalent** – A recognized (or listed) component of similar physical characteristics with electrical ratings that are the equivalent to those of the specified for the base components identified in the report.
 - e) **Unlisted components** – No recognized third-party certification.

CONSTRUCTION DETAILS

The total weight of the AccuVote TSx (AVTSx) Model D DRE Voting Machine with AccuView Printer Module (AVPM) is approximately 13.4 kg.

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Base Enclosure - [REDACTED] measuring approximately 2 mm thick. The rectangular shaped unit measures approximately 120 cm high with legs extended and 59 cm high with legs folded-up by 50 cm wide by 13 cm deep.

Slate Enclosure - [REDACTED] measuring approximately 2 mm thick. The rectangular shaped unit measures approximately 42 cm high by 33 cm wide by 6 cm deep.

See Attachment C for Safety Critical Components.

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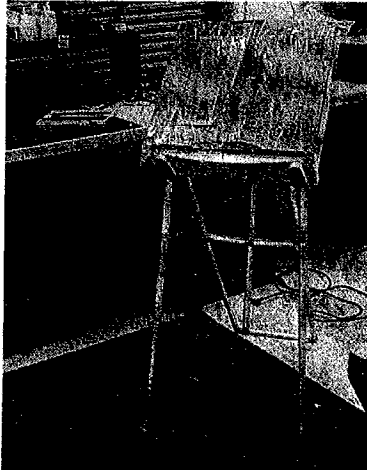
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ATTACHMENT A
PHOTOGRAPHS

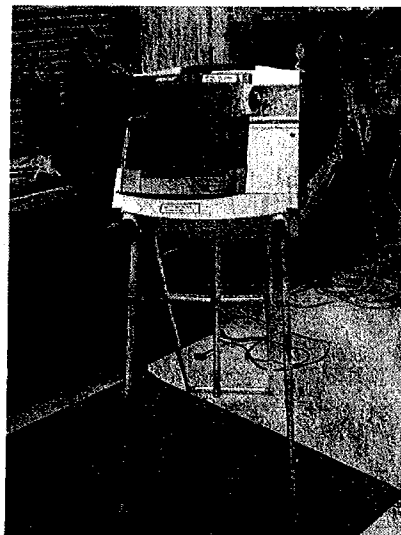
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Photograph A-1
Overall View with Doors Closed



Photograph A-2
Overall View with Doors Open

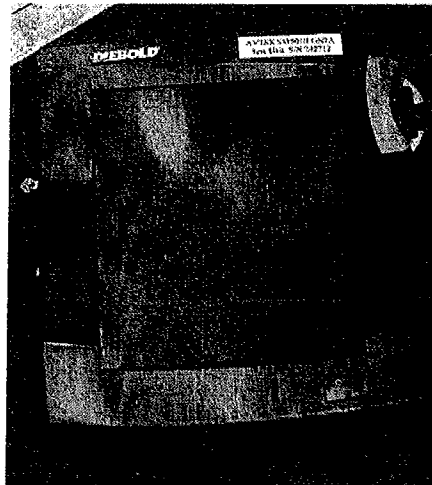
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Photograph A-3
Overall Rear View

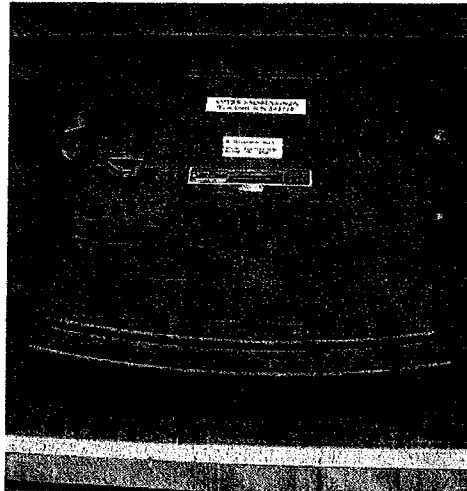


Photograph A-4
Overall View of AVTSx Tablet

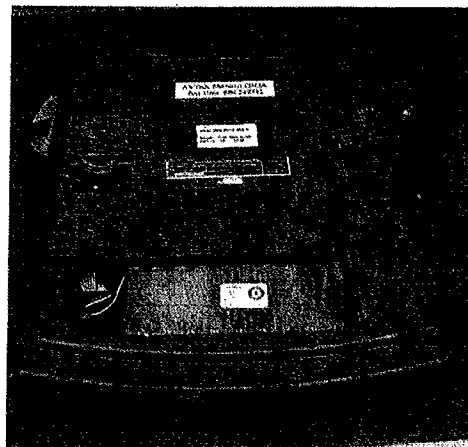
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Photograph A-5
Rear View of AVTSx Tablet



Photograph A-6
Back - Up Battery

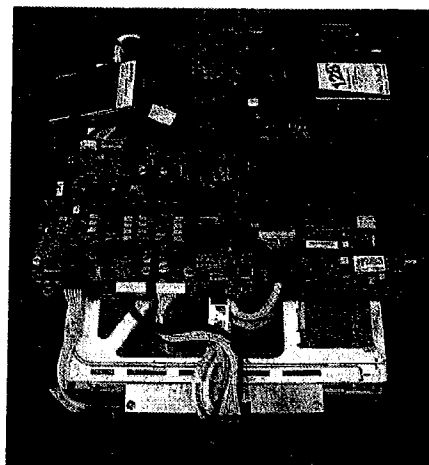
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Photograph A-7
Internal View Floor Stand

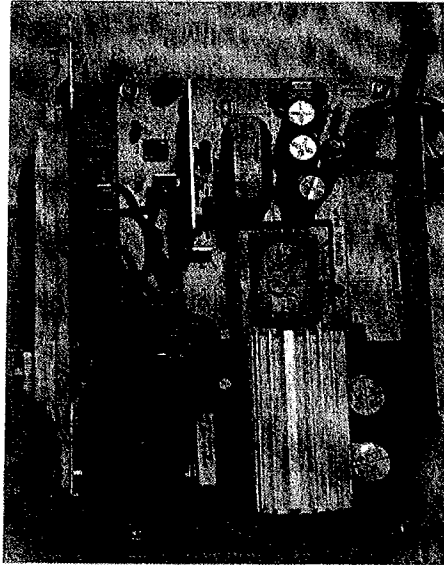


Photograph A-8
Internal View of AVTSx Tablet

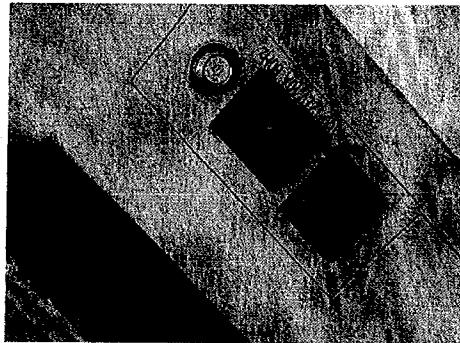
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Photograph A-9
Internal View of Power Supply in Floor Stand



Photograph A-10
Appliance Inlet and Circuit Breaker in Floor Stand

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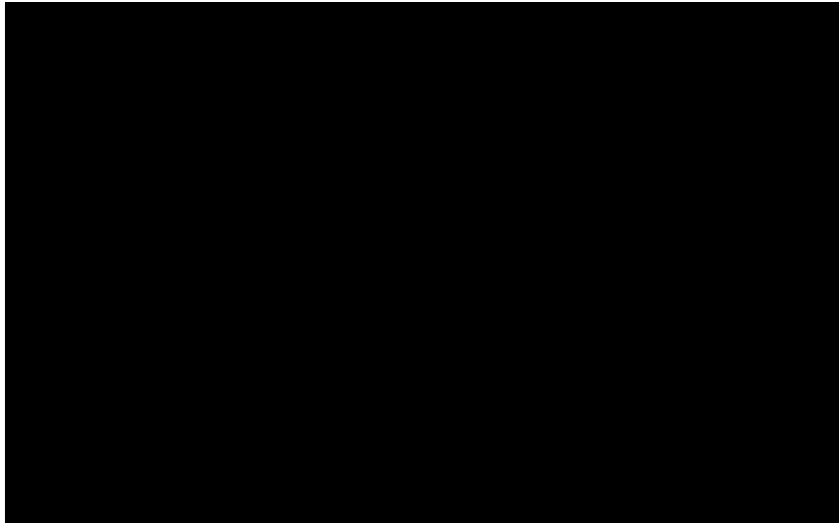
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ATTACHMENT B
SAFETY WARNINGS AND LABELS

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Staging Area Layout - 748 SF Area Shown 

Figure 7-5. Suggested AccuVote-TSX cart staging layout

7.4. Safety

The following safety considerations should be observed in the usage of the AccuVote-TSX.

7.4.1. Symbols

The following symbol is the electrical hazard symbol. It indicates that there are dangerous high voltages present inside the enclosure of a product. To reduce the risk of fire or electric shock, do not attempt to open the enclosure or gain access to areas where you are not instructed to do so. Refer servicing to qualified service personnel only.



Figure 7-6. Electrical Hazard symbol

The following symbol is the user caution symbol. It indicates a condition where damage to the equipment or injury to the operator could occur if operational procedures are not followed. To reduce the risk of damage or injury, follow all steps or procedures as instructed.

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DIEBOLD
ELECTION SYSTEMS

Environmental Control and Safety



Figure 7-7. User Caution symbol

7.4.2. User documentation



Following AccuVote-TSX installation, read the *AccuVote-TSX Hardware* as well as *Ballot Station User's Guide* carefully before operating. Follow all operating and other instructions carefully. Please be sure to operate the AccuVote-TSX unit only according to the usage instructions provided in the *AccuVote-TSX Hardware Guide* as well as the *Ballot Station User's Guide*.

7.4.3. Power sources



This product should be operated only from the type of power source indicated on the ID label provided on the unit. Installation should be in compliance with applicable sections of the National Electric Code.

7.4.4. Water and moisture



Do not place containers with liquids such as coffee, water, sodas, etc. on the AccuVote-TSX. Do not operate the equipment in a wet environment.

7.4.5. Cleaning



If it should become necessary to clean the AccuVote-TSX, disconnect the unit from its power source first. Do not use liquid cleaners, aerosols, abrasive pads, scouring powders or solvents, such as benzene.

1. For the touch screen, use only a dry microfibre cloth. In case of more difficult marks, use a pre-packaged, pre-moistened, 99% isopropynol wipe
2. For exterior plastics, use a soft cloth, lightly moistened with a household window cleaner
3. Do not spray any cleaning solutions directly on the product
4. Ensure the surface cleaned is fully dry before reconnecting power

7.4.6. Heating



Do not install the AccuVote-TSX near heat sources such as radiators, air ducts, areas subject to direct, intense sunlight, or other products that produce heat.

7.4.7. Power cord protection



The power supply cord for this product should be routed or installed in such a manner to protect it from being walked on or pinched. The power cord should be removed before moving the unit. The power cord must be placed near an easily accessible unobstructed socket outlet.

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Environmental Control and Safety

7.4.8. Battery replacement warning



Replace the battery pack only with same or equivalent type provided by Diebold Election Systems, Inc. Dispose of used batteries according to the manufacturer's instructions.

The AccuVote-TSX has a battery as secondary power source, which is charged by the AC power even when the AccuVote-TSX is powered off. When changing a battery in AccuVote-TSX, please be sure that AC power is disconnected from the unit.

7.4.9. Servicing



Do not attempt to service the AccuVote-TSX unless specifically instructed to do so. Do not attempt to gain access to areas of the unit where dangerous voltages are present. Refer servicing to qualified service personnel.

7.4.10. Damage requiring service



Unplug the AccuVote-TSX from the AC wall outlet and refer servicing to qualified service personnel under the following conditions:

1. When the power supply cord is damaged.
2. If liquid has been spilled into the enclosure of the unit.
3. If the product does not function normally by following the instructions in the *AccuVote-TSX Hardware and Ballot Station User's Guides*. Adjust only those controls that are covered by the operating instructions. Improper adjustment of controls may require rework by a qualified technician to restore the product to its normal operation.
4. If the product has been damaged in any way.
5. When the unit displays a negative, distinct change in performance.

7.4.11. Interfaces

Please be sure to connect only Diebold Election Systems, Inc. pre-approved devices to the available interface connectors on the AccuVote-TSX, such as the battery, power jack, smart card reader, PCMCIA slots, and serial port.

7.4.12. Daisy chaining

Multiple AccuVote-TSX units may be connected to each other at the polls in order to share the same power source. Ensure that no more than 6 units are daisy chained in this manner while operational, and no more than 10 units are daisy chained in the warehouse environment for the purpose of battery charging.

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ATTACHMENT C
SAFETY CRITICAL COMPONENTS

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Object/Device	Manufacturer	Type/Model	Technical Data	Marks of Certification
Power Source			[REDACTED]	UL eUS
Fuse (in Power Supply)				UL
Circuit Breaker				UL, CSA
Thermal Printer				UL
Modem				Not Applicable
Power Cord*				UL, eUS, CE
Battery*				UL, eUS, CE
LCD Panel				UL, CSA
DC to AC Inverter*				Not Applicable
Printed Wiring Board*				Not Applicable
Enclosure*			Not Applicable	
				UL
				UL
				UL

* is an equivalent

* Indicates a component

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ATTACHMENT D
TEST DATA

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Input Current Data Sheet



Job No.:	52501			Date:	02/22/06
Customer:	Diebold				
Specimen ID:	AVTSx				
Serial No.:	242712				
Standard(s)	UL 60950-1	CSA 60950-1	EN 60950-1		
Clause	1.6.2	1.6.2	1.6.2		
Acceptance Criteria (or Maximum Allowable Limits): Maximum 10% Deviation					
Test No.	Input				
	Volts	Hz	Amps	Watts	
1	108.0	60	0.99	108.92	
2	120.0	60	0.93	111.60	
3	132.0	60	0.87	114.84	
4					
5					
6					
Test Conditions					
1	Test conducted at -10% of US Nominal Rated Voltage				
2	Test conducted at US Nominal Rated Voltage				
3	Test conducted at +10% of US Nominal Rated Voltage				
4					
5					
6					
Compliance	Yes	X	Tested By: <i>[Signature]</i>	Date:	2/22/06
	No		Approved By: <i>[Signature]</i>	Date:	3/07/06

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Job No.: 52501 Date: 2/22/06
Specimen ID: AVTSx S/N: 242712
Customer: Diebold



Durability	Standard	CSA - C22.2 No. 60950-1-03/ UL 60950-1	EN 60950-1/ IEC 60950-1
	Clause	1.7.13	1.7.13
Compliance: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Tested by: <u>Gennifer Thomas</u> Date: <u>2/22/06</u> Approved by: <u>J. D. Leath</u> Date: <u>3/2/06</u>	
Method: A sample of the marking label was subjected to the following test. The surface of each marking as noted below was rubbed by hand for a period of 15 seconds with a water soaked cloth and again for a period of 15 seconds with a petroleum spirit (Hexane) soaked cloth. The results are listed below.			
Test Conditions			
Use of marking?	Good		
Material?	Mylar		
Held By?	Pressure Sensitive Adhesive		
Applied surface material	Thermoplastic		
Observations:	Water	Hexane	
Any Damage?	No	No	
Legible?	Yes	Yes	
Curled?	No	No	
Edges Lifted?	No	No	
Easily removed intact?	No	No	
Comments:			

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Job No.: 52501 Date: 2/22/06
Specimen ID: AVTSx S/N: 242712
Customer: Diebold



Access to Energized Parts	Standard	CSA - C22.2 No. 60950-1-03/UL 60950-1	EN 60950-1/ IEC 60950-1
	Clause(s)	2.1.1.1	2.1.1.1
Compliance: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Tested by: <u>[Signature]</u> Date: <u>2/22/06</u>	Approved by: <u>[Signature]</u> Date: <u>3/27/06</u>
<p>The EUT with all operator access covers removed was subjected to this test. A test finger was applied without appreciable force to all apertures, in an attempt to contact hazardous parts. Operator detachable connectors were tested in an attempt to contact hazardous parts. Operator detachable connectors were tested during and after disconnections. Openings preventing the entry of the test finger were further tested by means of a straight unjointed version of the test finger, which was applied with a force of 30 N (6.75 lbs).</p>			
Results: Pass			
<p>The EUT with all operator detachable parts, including fuse holders and lamps were left in place and operator access doors and covers closed, was subjected to this test. A test pin was applied to all apertures located in electrical enclosures, in an attempt to contact hazardous parts.</p>			
Results: Pass			

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MECHANICAL STRENGTH AND STRESS RELIEF

Job No.: 52501 Date: 2/28/06
Specimen ID: AVTSx S/N: 242712
Customer: Diebold

These measurements were taken in accordance with the following standards:

Underwriters Laboratories 60950-1; Canadian Standard C22.2 No. 60950-1-03; European Standard EN 60950-1; European Standard 61010-1; Other: _____

Section 4.2.2 – Steady Force 10N

A steady force of 10N ± 1N was applied to components and parts, other than parts serving as an Enclosure.

Results: Pass

Section 4.2.3 – Steady Force 30N

The EUT was placed on a suitable surface. A steady force of 30N ± 3N was applied for a period of 5 seconds on four surfaces by means of a straight unjointed test finger.

Results: Pass

Section 4.2.4 – Steady Force 250N

The EUT was placed on a suitable surface. A steady force of 250N ± 10 N was applied for a period of 5 seconds on four surfaces by means of a suitable tool which provided contact over a circular plane surface 30 mm in diameter.

Results: Pass

Section 4.2.5 – Steel Ball Test

With the EUT held in a fixed position, a smooth sphere, approximately 50 mm in diameter and weighing 500 g ± 25 g, was allowed to fall horizontally from rest through the distance of 1300 mm and allowed to strike the EUT in three different locations.

Results: Pass

Section 4.2.7 – Mold Stress Relief

A sample consisting of the complete equipment, or of the complete enclosure, together with any supporting framework, is subjected to a circulating air oven to a temperature 10 K higher than the maximum temperature observed during the test of 5.1, but not less than 70 °C, for a period of 7 hours, then permitted to cool to room temperature.

Results: Pass; See previous Testing

Technician: *Jennifer Smith* Date: 2/28/06
Engineer: *Mark Pankala* Date: 3/17/06

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Maximum Temperatures Data Sheet 

Job No.:		52501		Date:		02/27/06	
Customer:		Diebold					
Specimen ID:		AVTSx					
Serial No.:		242712					
Standard(s)		UL 60950-1		CSA C22.2 No. 60950-1		EN 60950-1	
Clause		4.5.1		4.5.1		4.5.1	
Rated Voltage or Voltage Range		120					
Rated Freq. or Freq. Range		60					
Upper Limit (+10%)		120x 1.10 V =		132.00V			
Lower Limit (- 10%)		120x 0.9 V =		108.00V			
Duty Cycle/Operating Condition							
T.C. Locations		T.C. Wyle #	Measured (°C)			Allowed Δ from Ambient	
			120 V	108 V	132 V		
			60 Hz	60 Hz	60 Hz		
Ambient Temperature			21°C	22°C	23°C		
Ambient Humidity			16%	16%	16%		
1	PCMCIA Card Slot	139651	34.9	35.8	36.1	----	
2	Voter Card Slot	139652	33.9	34.7	35.0	----	
3	Center of Motherboard	139653	34.3	34.8	35.1	----	
4	Inside Enclosure of Voting Machine	139654	34.3	35.1	35.5	----	
5	Back - Up Battery	139655	35.2	39.4	40.5	----	
6	Appliance Outlet next to Power Supply	139656	36.8	37.1	37.6	----	
7	Appliance Inlet next to Power Supply	139657	34.4	34.7	35.2	----	
8	T100 Transformer Winding in Power Supply	139658	43.2	43.5	44.1	----	
9	Top of Small Transformer in Power Supply	139659	46.5	46.8	48.3	----	
10	Top of C101 in Power Supply	396510	47.7	47.5	50.0	----	
Start Time:			2-27/0815	2-27/1135	2-27/1325		
Stop Time:			2-27/1130	2-27/1315	2-27/1440		
Compliance	X	Yes	Tested By: <i>Jennifer Huggins</i>		Date: 2/27/06		
		No	Approved By: <i>Fred M. Bell</i>		Date: 3/7/06		

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Maximum Temperatures Data Sheet 

Job No.: 52501		Date: 02/27/06				
Customer: Diebold						
Specimen ID: AVTSx						
Serial No.: 242712						
Standard(s)	UL 60950-1	CSA C22.2 No. 60950-1	EN 60950-1	IEC 60950-1		
Clause	4.5.1	4.5.1	4.5.1	4.5.1		
Rated Voltage or Voltage Range	120					
Rated Freq. or Freq. Range	60					
Upper Limit (+10%)	120 x 1.10 V =		132.00V			
Lower Limit (-10%)	120 x 0.9 V =		108.00V			
Duty Cycle/Operating Condition						
T.C. Locations		T.C. Wyle #	Measured (°C)			Allowed Δ from Ambient
			120 V	108 V	132 V	
Ambient Temperature			60 Hz	60 Hz	60 Hz	
Ambient Humidity			21°C	22°C	23°C	
			16%	16%	16%	
1	Top of R100 in Power Supply	139481	53.7	54.5	54.4	----
2	Top of C203 in Power Supply	139482	47.3	47.4	47.8	----
3	Breaker next to Power Supply	139483	38.6	38.3	38.8	----
4	Bottom Outside of Power Supply	139484	23.2	23.5	22.7	----
5	Outside Back of Voting Machine Enclosure	139485	30.0	30.3	30.4	----
6	Top of Printer Enclosure	139486	23.8	24.6	24.0	----
7	Front of Printer Enclosure	139487	24.5	24.6	24.5	----
8	Cover over Ballot Receipt	139488	23.5	23.9	23.9	----
9	Outside Front Bottom of Voting Machine Enclosure	139489	26.6	27.0	26.8	----
10	Outside Front Top of Voting Machine Enclosure	394810	33.7	33.8	33.9	----
Start Time:			2-27/0815	2-27/1135	2-27/1325	
Stop Time:			2-27/1130	2-27/1315	2-27/1440	
Compliance	<input checked="" type="checkbox"/>	Yes	Tested By: Jennifer Howard		Date: 2/27/06	
	<input type="checkbox"/>	No	Approved By: Paul R. B. [Signature]		Date: 3/7/06	

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Test Report No. 52501-07

WYLE LABORATORIES, INC.
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Report No.: 52501-06
Diebold Election Systems

Issued: 03/27/2006

Job No.: 52501 Date: 2/22/06
Specimen ID: AVTSx S/N: 242712
Customer: Diebold



Touch and Protective Conductor Current Data Sheet		Standard	UL 60950-1	CSA - C22.2 No. 60950-1	EN 60950-1/	IEC 60950-1
		Clause	5.1.2	5.1.2	5.1.2	5.1.2
No.	Leakage (mA)	Input Volt/Hz	Measured Volt	Location	Primary Power Switch*	Meter Switch Position
1	0.36	120/60	120	Line-Ground	ON	Forward
2	0.18	120/60	120	Line-Ground	ON	Reverse
3	0.36	120/60	120	Line-Ground	OFF	Forward
4	0.20	120/60	120	Line-Ground	OFF	Reverse
5	0.18	120/60	120	Neutral-Ground	ON	Forward
6	0.33	120/60	120	Neutral-Ground	ON	Reverse
7	0.18	120/60	120	Neutral-Ground	OFF	Forward
8	0.33	120/60	120	Neutral-Ground	OFF	Reverse
Filter Name/Type:						
Comments: <u>EUT contains a Recognized Power Source</u>						
Compliance: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				Tested by: <u>Jenny [Signature]</u> Date: <u>2/22/06</u> Approved by: <u>[Signature]</u> Date: <u>3-7-06</u>		

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Test Report No. 52501-07

WYLE LABORATORIES, INC.
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Report No.: 52501-06
Diebold Election Systems

Issued: 03/27/2006

Job No.: 52501 Date: 2/28/06
Specimen ID: AVTSx S/N: 242712
Customer: Diebold



Electric Strength Test Data Sheet	Standard	CSA - C22.2 No 60950-1-03/UL 60950-1	EN 60950-1/IEC 60950-1
	Clause	5.2.2	5.2.2
Acceptance Criteria (or Maximum Allowable Limits): No insulation breakdown during test.			
Compliance: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Tested by: <u>[Signature]</u>	Date: <u>2/28/06</u>	
	Approved by: <u>[Signature]</u>	Date: <u>3/2/06</u>	
Location	Test Voltage	Result	
(A) ON COMPLETE SYSTEM:	1000 Vac	Pass	
Primary and Earth		/	
Primary and SELV Secondary			
Primary and SELV Secondary			
Primary and V Secondary			
Primary and V Secondary			
SELV Secondary and Earth			
SELV Secondary and Earth			
V Secondary and Earth			
V Secondary and Earth			
(B) ON SAFETY ISOLATING TRANSFORMER:			
Primary and SELV Secondary			
Primary and Core/Screen			
Primary and ELV Secondary			
Secondary and Core			
Between SELV and Secondaries			
Between ELV and SELV Secondaries			
(C) ON TNV CIRCUITS: (Including alternative optical Isolators and relays)	N/A	N/A	
Telephone Ringing Circuit and Earth	N/A	N/A	
Telephone Ringing Circuit and Secondary Circuits	N/A	N/A	
Comments: L/N → Gnd; No Insulation Breakdown			

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Test Report No. 52501-07

WYLE LABORATORIES, INC.
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Report No.: 52501-06
Diebold Election Systems

Issued: 03/27/2006

**ABNORMAL OPERATING
AND FAULT CONDITIONS**



Job No.:	52501			Date:	2/28/2006
Customer:	Diebold				
Specimen ID:	AVTSx				
Serial No.:	242712				
Standard(s)	UL 60950-1	CSA C22.2 No. 60950-1	EN 60950-1	IEC 60950-1	
Clause	5.3	5.3	5.3	5.3	
Method:					
The EUT was operated continuously under the abnormal conditions noted below:					
<input checked="" type="checkbox"/> The EUT was placed on a tissue paper covered softwood surface and covered with cheesecloth.					
<input type="checkbox"/> The following unreliable controls, thermostats, and/or thermal cutouts were shorted:					
Test No.	Test Conditions				
<input type="checkbox"/>	_____ Mechanical movement disabled.				
<input type="checkbox"/>	_____ Misloaded unit				
<input type="checkbox"/>	_____ Drive motor stalled or overloaded (i.e., paper jam).				
<input type="checkbox"/>	_____ Stalled fan or blower.				
<input type="checkbox"/>	_____ Disconnected fan or blower.				
<input type="checkbox"/>	_____ Foreseeable misuses of operating devices (knobs, levers, keys, etc.).				
<input type="checkbox"/>	_____ Blocked ventilation openings.				
<input type="checkbox"/>	_____ Disabled timer switch.				
<input type="checkbox"/>	_____ Contact(s) malfunctioned.				
<input type="checkbox"/>	_____ Thermostat(s) malfunctioned.				
<input type="checkbox"/>	_____ Thermal cutout(s) malfunctioned.				
<input type="checkbox"/>	_____ Solenoid plunger locked.				
<input type="checkbox"/>	_____ Clutch - continuous operation.				
<input checked="" type="checkbox"/>	1 & 2 Voltage mismatch.				
<input type="checkbox"/>	_____				
<input type="checkbox"/>	_____				
<input type="checkbox"/>	_____				
At the end of the test, an Electrical Strength (ES) potential was applied as indicated below for 1 minute.					
From	Location	To	Potential Used (V)		
L/N		Gnd	1000	<input checked="" type="checkbox"/>	ac
				<input type="checkbox"/>	dc
				<input type="checkbox"/>	ac
				<input type="checkbox"/>	dc
Compliance	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> X	Tested By:	<i>Amelia L. Thomas</i>	Date: 2/28/06
	<input type="checkbox"/> No		Approved By:	<i>John D. M. [Signature]</i>	Date: 3/7/06

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Test Report No. 52501-07

WYLE LABORATORIES, INC.
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Report No.: 52501-06
 Diebold Election Systems

Issued: 03/27/2006

**ABNORMAL OPERATING
 AND FAULT CONDITIONS**



Job No.:	52501	Date:	2/28/2006
Customer:	Diebold		

Test: 1	Component:	Battery	Abnormal Cond.:	Voltage Mismatch	
Component Location:		Rear of Voting Machine			
Input (V/Hz):	120/60	Duration:	1 Minute	ES Voltage:	1000 Vac
Comments:					
Reversed the connection of the Battery in the EUT. The Inlet for the Battery connection would not allow the Connector to be connected in Reverse Polarity.					
Test: 2	Component:	AC Power Cord	Abnormal Cond.:	Voltage Mismatch	
Component Location:		Side of Voting Machine Floor Stand			
Input (V/Hz):	120/60	Duration:	1 Minute	ES Voltage:	1000 Vac
Comments:					
Reversed the connection of the AC Power Cord on the EUT. The Appliance Inlet on the EUT would not allow the AC Power Cord connection to be connected in Reverse Polarity.					
Test:	Component:		Abnormal Cond.:		
Component Location:					
Input (V/Hz):		Duration:		ES Voltage:	
Comments:					
Test:	Component:		Abnormal Cond.:		
Component Location:					
Input (V/Hz):		Duration:		ES Voltage:	
Comments:					
Test:	Component:		Abnormal Cond.:		
Component Location:					
Input (V/Hz):		Duration:		ES Voltage:	
Comments:					

Report No.: 52501-06
Diebold Election Systems

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**ATTACHMENT E
INSTRUMENTATION EQUIPMENT SHEETS**

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 Test Report No. 52501-07

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Report No.: 52501-06
 Diebold Election Systems

Issued: 03/27/2006



INSTRUMENTATION EQUIPMENT SHEET

DATE: 2/22/06 JOB NUMBER: 52501 TEST AREA: PRO SAFETY
 TECHNICIAN: J. THOMAS CUSTOMER: DIEBOLD TYPE TEST: UL 60950-1

NO.	INSTRUMENT	MANUFACTURER	MODEL #	SERIAL #	WYLE #	RANGE	ACCURACY	CAL DATE	CAL DUE
1	TEMP IND	OMEGA	MDSS41-TC	9230074	115693	MULTI	±0.2°	10/11/05	10/11/06
2	TEMP PROBE	FLUKE	80PR-90	N/A	254866	-40 TO +500°F	±2°F	5/26/05	5/26/06
3	THERMOMETER DI	FLUKE	68	2667260601-01	110762	-25 TO +1400°	±2°F	5/26/05	5/26/06
4	T/C	MEDTHERM	TC-J	1394810	1394810	32 TO 1400°F	±2°F	6/3/05	6/2/06
5	T/C	MEDTHERM	TC-J	139489	139489	32 TO 1400°F	±2°F	6/3/05	6/2/06
6	T/C	MEDTHERM	TC-J	139488	139488	32 TO 1400°F	±2°F	6/3/05	6/2/06
7	T/C	MEDTHERM	TC-J	139487	139487	32 TO 1400°F	±2°F	6/3/05	6/2/06
8	T/C	MEDTHERM	TC-J	139486	139486	32 TO 1400°F	±2°F	6/3/05	6/2/06
9	T/C	MEDTHERM	TC-J	139485	139485	32 TO 1400°F	±2°F	6/3/05	6/2/06
10	T/C	MEDTHERM	TC-J	139484	139484	32 TO 1400°F	±2°F	6/3/05	6/2/06
11	T/C	MEDTHERM	TC-J	139483	139483	32 TO 1400°F	±2°F	6/3/05	6/2/06
12	T/C	MEDTHERM	TC-J	139482	139482	32 TO 1400°F	±2°F	6/3/05	6/2/06
13	T/C	MEDTHERM	TC-J	139481	139481	32 TO 1400°F	±2°F	6/3/05	6/2/06
14	HIPOT TSTR	BIDDLE	230425	254666	110745	5 KV	MFG	4/28/05	4/28/06
15	IMPACT HAMMER	PTL ORABENHORST	F22-50	9701031.3	113422	201.35J	±0.2J	4/25/03	4/25/06
16	T/C	MEDTHERM	TC-J	1396510	1396510	32 TO 1400°F	±2°F	3/18/05	3/17/06
17	T/C	MEDTHERM	TC-J	139659	139659	32 TO 1400°F	±2°F	3/18/05	3/17/06
18	T/C	MEDTHERM	TC-J	139658	139658	32 TO 1400°F	±2°F	3/18/05	3/17/06
19	T/C	MEDTHERM	TC-J	139657	139657	32 TO 1400°F	±2°F	3/18/05	3/17/06
20	T/C	MEDTHERM	TC-J	139656	139656	32 TO 1400°F	±2°F	3/18/05	3/17/06
21	T/C	MEDTHERM	TC-J	139655	139655	32 TO 1400°F	±2°F	3/18/05	3/17/06
22	T/C	MEDTHERM	TC-J	139654	139654	32 TO 1400°F	±2°F	3/18/05	3/17/06
23	T/C	MEDTHERM	TC-J	139653	139653	32 TO 1400°F	±2°F	3/18/05	3/17/06
24	T/C	MEDTHERM	TC-J	139652	139652	32 TO 1400°F	±2°F	3/18/05	3/17/06
25	T/C	MEDTHERM	TC-J	139651	139651	32 TO 1400°F	±2°F	3/18/05	3/17/06
26	TEMP IND	OMEGA	MDSS41-TC	K0108078	116841	MULTI	±0.3°F	1/17/06	3/17/06
27	LEAKAGE TSTR	ED&D	LT-15	09980109	114812	2mA	1%	10/20/05	10/20/06
28	TEMP RECORDER	DICKSON	THDX	6348805	113410	-20-120°F	1.5°F	10/19/05	10/19/06
29	IMP MTR	PSC INC	30D	3166	112726	50AMP	1%	10/12/05	10/12/06
30	IMPACT TSTR	WYLE	424	112266	112266	BALL 516gram	25g/10cm	9/9/05	9/8/06
31	PUSH-PULL GAGE	CHATILLON	DPPH-100	D30156	113736	100LB	1%FS	9/9/05	3/8/06
32	POWER SOURCE	CALIFORNIA INSTR	1251P232	L06627	115806	100-240VAC @	±2% FS	5/2/05	5/2/06
33	ANGLE GAGE	ED&D	AM-01	NA	085888	90°	±2°	12/13/05	3/13/06
34	OSCOPE	TEKTRONIX	TDS220	D029064	113941	MULTI	3%	9/8/05	9/8/06
35	CURRENT CLAMP	FLUKE	50i-410	99041601	104081	2-400 AC/DC A	3%	10/10/05	4/7/06
36	CALIPER	CHINA	L50	109918	109918	150mm/6in	.001"	12/13/05	3/13/06
37	DMM	FLUKE	87 CAT III	74260258	115802	MULTI	.05%, 1%, 2%	1/18/06	1/18/07

This is to certify that the above instruments were calibrated using state-of-the-art techniques with standards whose calibration is traceable to the National Institute of Standards and Technology.

INSTRUMENTATION *Jennifer Thomas* 2/22/06 CHECKED & RECEIVED BY *Jim Smith* 2-22-06
 Q.A. *Jim Smith* 2/22/06

WH-100A REV. APR 99



"Shawn Southworth "
<ssouthworth@ciber.com>

04/26/2006 09:11 PM

To "Steve Freeman" [REDACTED], "Sandy
Steinbach" <sandy@sos.state.ia.us>, "Paul Craft"

[REDACTED] "Brit Williams" [REDACTED]

cc

bcc

Subject 4 of 5



4 of 5 Diebold 52501-02 EMP 4.6.2 Preliminary.zip



Preliminary Test Report

Attached is the preliminary test report for

**HARDWARE QUALIFICATION
TESTING
OF THE
DIEBOLD ELECTION SYSTEMS
ELECTION MEDIA PROCESSOR
(Firmware Release 4.6.2)**

This report is submitted for NASED review by Wyle Laboratories, Inc. on 12/15/05

Signed: Wendy Owens _____