Arizona Secretary of State
Certified Vote Tabulating Equipment+
Pursuant to A.R.S. § 16-442

DATE	COMPANY TYPE OF EQUIPMENT	DESCRIPTION
December 2005	Elections Systems & Software (ES&S) ES&S AutoMARK Voting System Release 1.0 AutoMARK Voter Assist Terminal 1.0 AutoMARK AIMS 1.0.9 Unity 2.4.3 Model 100 (5.0.0.0) Model 150/550 (2.1.1.0) Model 650 (1.2.0.0) Optech Eagle (1.28/1.50)	The ES&S AutoMARK Voting System release 1.0 which includes the AutoMARK Voter Assist Terminal (VAT) version 1.0, the AutoMARK Information Management System (AIMS) version 1.0.9 and the ES&S Unity 2.4.3 election management software for use as a system suite with the ES&S Model 100 Optical Scan Precinct Ballot Counter (version 5.0.0.0), ES&S Model 150/550 central count tabulators (version 2.1.1.0), ES&S Model 650 central count tabulator (version 1.2.0.0), and the Optech Eagle precinct counter (version 1.28/1.50). The ES&S AutoMARK Voting System 1.0 has been issued EAC System Number N-1-16-22-12-001.

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December 2005	Election Systems & Software (ES&S) Unity 2.4.3 Audit Manager 7.0.2.0 Election Data Manager 7.2.1.0 ES&S Image Manager 7.2.0.0 Hardware Program Manager 5.0.3.0 Data Acquisition Manager 5.0.3.1 Election Reporting Manager 6.4.3.0 Model 100 (5.0.0.0) Model 150/550 (2.1.1.0) Model 650 (1.2.0.0) Optech Eagle (1.28/1.50)	The Unity 2.4.3 Voting System suite which includes Audit Manager (version 7.0.2.0), Election Data Manager (version 7.2.1.0), ES&S Image Manager (version 7.2.0.0), Hardware Program Manager (version 5.0.3.0), Data Acquisition Manager (version 5.0.3.1), and Election Reporting Manager (version 6.4.3.0) for use as a system suite with the ES&S Model 100 Optical Scan Precinct Ballot Counter (version 5.0.0.0), ES&S Model 150/550 central count tabulators (version 2.1.1.0), ES&S Model 650 central count tabulator (version 1.2.0.0), and the Optech Eagle precinct counter (version 1.28/1.50). The ES&S Model 650 central count tabulator was not previously certified for use in Arizona and is included in this certification. The ES&S Unity 2.4.3 Voting System has been issued EAC System Number N-1-02-21-21-002.

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DATE	COMPANY TYPE OF EQUIPMENT	DESCRIPTION
November 2005	Diebold Election Systems, Inc. GEMS 1-18-24 AccuVote-OS Precinct Count (Model D) 1.96.6 AccuVote-OS Central Count 2.0.12 Key Card Tool 4.6.1 VCProgrammer 4.6.1 Voter Card Encoder 1.3.2 ExpressPoll 4000 1.1.5 AccuVote TSx Precinct Counter with AVPM (Touch Screen with Printer Module) 4.6.4	The AccuVote-TSX DRE with AccuVote Printer Module (version 4.6.4) is a Direct Record Electronic (DRE) touch screen precinct counter with an attached printer that generates a voter verifiable paper audit trail. This voting device is approved for use with GEMS 1.18.24 and has completed Independent Testing Authority review, has been NASED qualified, and has been issued EAC System Number N-1-06-22-22-002. The AccuVote OS Model D (version 1.96.6) is an optical scan precinct counter. The ExpressPoll 4000 (version 1.1.5) is an electronic poll book and voter card encoder to be used by the poll workers at the precincts. The Key Card Tool 4.6.1 is used to encode the security key values on the system's smart card reading equipment. The Voter Card Encoder 1.3.2 is designed to encode voter access cards for the purpose of activating the appropriate ballot style for the voting location. VCProgrammer 4.6.1 is a PC based application that is used to create voter access cards for use on AccuVote-TSX DRE. The AccuVote-OS Optical Scan Central Count (version 2.0.12) is used at election central to count large amounts of early ballots. These voting system components have all completed Independent Testing Authority review, have been NASED qualified for use with GEMS 1.18.24 and this entire system suite has been issued EAC System Number N-1-06-22-22-001.

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DATE	COMPANY TYPE OF EQUIPMENT	DESCRIPTION
July 2005	Sequoia Voting Systems EMS/AERO 3.54.1 Election Management Software Optech 400-C version 1.10.5 Optech Insight (APX.K2.06.021108.1600; CPX.J/K1.12.020412.1100; HPX.K/K1.40.021030.1110) Optech 3P Eagle (APS.H1.52.980428.1040; CPS.H1.08A.980428.1150; HPS.D/H1.30.980428.1130) Smart Pack Reader (SPR Host) 1.04 Memory Pack Reader (MPR) 2.15	This voting system which includes the EMS/AERO 3.54.1 election management software, the Optech 400-C central count tabulator (WINETP Firmware version 1.10.5), the Optech Insight precinct voting machine (APX.K2.06.021108.1600; CPX.J/K1.12.020412.1100; HPX.K/K1.40.021030.1110), the Optech 3P Eagle precinct voting machine (APS.H1.52.980428.1040; CPS.H1.08A.980428.1150; HPS.D/H1.30.980428.1130), the Smart Pack Reader (SPR Host) 1.04 and the Memory Pack Reader (MPR) 2.15 has completed the Independent Testing Authority process and been issued NASED system number N-1-07-12-12-001 (1990).

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May 2005	Diebold Election Systems, Inc. AccuVote-TS R6 Direct Record Electronic (DRE) Firmware Version 1.18.22 used with GEMS 1.18.22 Key Card Tool 1.0.1 Voter Card Encoder 1.3.2	The update on the AccuVote-TS R6 is for Firmware version 4.5.2 which reflects changes made to include revisions and advancements in technology. Changes in the GEMS 1.18.22 software include: 1) Challenge Board enhancement: support ability to print out unaccepted, unreviewed ballots; 2) Download to multiple machines at the same time; 3) Make AVServer dialog resizable. The AccuVote-TS R6 DRE Touch Screen (Firmware version 4.5.2) to be used with GEMS 1.18.22 Election Management Software, Key Card Tool 1.0.1, and Voter Card Encoder 1.3.2 has been issued NASED # N-1-06-12-12-003.
May 2005	Diebold Election Systems, Inc. AccuVote-TSX Direct Record Electronic (DRE) Firmware Version 1.18.22 used with GEMS 1.18.22 Key Card Tool 1.0.1 Voter Card Encoder 1.3.2	The AccuVote-TSX is a Direct Record Electronic (DRE) Touch Screen Precinct Counter type voting machine. The Key Card Tool 1.0.1 is used to encode the security key values on the system's smart card reading equipment. The Voter Card Encoder 1.3.2 is designed to encode voter access cards for the purpose of activating the appropriate ballot style for the voting location. The AccuVote-TSX DRE Touch Screen (Firmware version 4.5.2) to be used in conjunction with GEMS 1.18.22 Election Management Software, Key Card Tool 1.0.1, and Voter Card Encoder 1.3.2 has completed the Independent Testing Authority testing and been issued NASED #N-1-06-12-12-003.

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October 2004	Election Systems & Software (ES&S) Optech IV-C firmware version 1.07A *Emergency certification granted for exclusive use in Maricopa County until first Federal election of 2006.	An emergency certification of firmware version 1.07a for use with the Optech IV-C central count tabulators is granted conditional upon the following terms: • The emergency certification is granted for use in Maricopa County only. • ES&S must have the Optech IV-C firmware 1.07a tested through an Independent Testing Authority and must receive a system number through the Election Assistance Commission and the NASED Technical Review Committee before the first Federal election of 2006 in Arizona. • Once testing is complete, ES&S will submit the 1.07a firmware for official certification in Arizona before the first Federal election of 2006 in Arizona. • If ES&S cannot meet this requirement, Maricopa County (or any other affected jurisdiction) must look at other alternatives for central count processing. Per ES&S the previously certified firmware version 1.06a is limited to 64K storage and will not compile the Maricopa County General Election. Firmware version 1.07A has enough storage capacity to compile the election.
October 2004	Diebold Election Systems, Inc. VCProgrammer 4.1.11 used with GEMS 1.18.19	Per the EAC: The supporting documentation indicates that the VCProgrammer version 4.1.11 used with GEMS Software 1.18.19 has successfully completed Independent Testing Authority review and has been NASED/EAC approved and issued system number N-1-06-12-12-004. VCProgrammer is a PC based application that, when used with an external smart card reading device, can be used to create voter access cards for use on AccuVote-TS touch screen units configured for an election.

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October 2004	Diebold Election Systems, Inc. AccuVote Central Count 2.0.12 used with GEMS software 1.18.19	Per the EAC: The AccuVote Central Count 2.0.12 used with GEMS 1.18.19 has successfully completed Independent Testing Authority review and has been NASED/EAC approved and issued system number N-1-06-12-12-004. The core functions of the Central Count are identical to those performed by the AccuVote-OS Optical Scan. The hardware used for the Central Count is the AccuVote-OS Optical Scan Precinct Count unit, except there is a different firmware chip inside of the hardware unit. When using the Central Count results are not sent to the memory card within the unit but are sent to the election server, through direct cabling, where the GEMS database will tabulate the results. The benefit for using the Central Count system is it allows you to run multiple AccuVote-OS readers if needed for counties with large numbers of early ballots and not have to separate early ballots by precinct as not all precincts will fit on one memory card within an AccuVote-OS unit.
August 2004	Election Systems & Software (ES&S) Election Reporting Manager (ERM) version 6.3.1.2* *Emergency certification granted for exclusive use in Maricopa County during the 2004 election cycle.	Election Reporting Manager (ERM) version 6.3.1.2. This version replaces ERM version 6.3.1.0. -- a component of the Unity Election System Software Version 2.2 certified for use in Arizona in 2002. During a pre-test, Maricopa County uncovered an error condition in ERM 6.3.1.0 related to the size of the election for the upcoming primary that had not been encountered in the past. Maricopa County has communicated their support for this request for emergency certification by ES&S. Emergency certification of the Election Reporting Manager version 6.3.1.2 use in Maricopa County during the 2004 election year.

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July 2004	Diebold Election Systems, Inc. GEMS Election Management Software	The supporting documentation indicates that the GEMS Election Management Software version 1.18.19 has completed the Independent Testing Authority review, has been NASED qualified, and has been assigned System No. N-1-6-12-12-001 by the Election Assistance Commission (EAC). Per EAC for use with: AccuVote–OS Precinct Counter (Formerly ES-2000) Firmware version 1.94 W AccuVote–OS Precinct Counter Firmware version 1.96.4 AccuVote--TS Precinct Counter Rev 6 version 1.0.2

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DATE	COMPANY TYPE OF EQUIPMENT	DESCRIPTION
March 2004	Diebold Election Systems, Inc. AccuVote Central Count 2.0.10* *Six (6) month emergency "interim" certification granted for exclusive use in Pima County.	Per Diebold – "The core functions of the Central Count are identical to those performed by the AccuVote-OS Optical Scan [certified October 2003]. The hardware used for the Central Count is the AccuVote-OS Optical Scan Precinct Count unit, except there is a different firmware chip inside of the hardware unit. Additionally, when using Central Count, this requires no memory card within the unit but a direct cabling from your Optical Scan unit to the election server where the GEMS (Global Election System Management System) is running. "The ROM chip used for Central Count will direct the results into the GEMS database for tabulation, rather than that of the precinct count unit where the results will be housed on the memory card within the unit. The benefit for using the Central Count system is it allows you to run multiple AccuVote-OS readers if needed for accounts with large numbers of absentee ballots, and not having to separate absentee ballots by precinct because not all precincts will fit on one memory card within the AccuVote-OS unit." Upon review of the company's documentation and a report from Granite Creek Technologies (on file with the Secretary of State's office) a six (6) month emergency "interim" certification of Diebold Election Systems' AccuVote Central Count version 2.0.10 is granted. This emergency "interim" certification of the AccuVote Central Count 2.0.10 is conditional upon the following terms: • The emergency "interim" certification will be valid for six (6) months effective immediately. • Diebold Election Systems will submit the AccuVote Central Count 2.0.10 for ITA qualification. • Within six (6) months, Diebold Election Systems will apply for full certification with the State of Arizona, will report the results of the ITA testing to the State of Arizona, and will perform a test demonstration of the AccuVote Central Count 2.0.10 for the committee. • The emergency "interim" certification of the AccuVote Central Count 2.0.10 will only be valid for Pima County for use in state, county, city and town elections.

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October 2003	Diebold Election Systems, Inc. AccuVote-OS Optical Scan Voting System	Supporting documentation indicates that the AccuVote-OS Optical Scan Voting System (firmware release 1.94w) has completed the Independent Testing Authority review and has been NASED qualified. The AccuVote-OS Optical Scan Voting System (firmware release 1.94w) is also known as the AccuVote Visible Light Ballot Reader and the AccuVote ES-2000 Ballot Reader Precinct Count. The AccuVote-OS 1.94w has been issued NASED # 010701-1.94W-1990.
October 2003	Diebold Election Systems, Inc. AccuVote-TS R6 DRE Voting System AccuVote-OS Optical Scan Voting System	Supporting documentation indicates that both the AccuVote-TS R6 DRE Voting System (Firmware release 4.3.15) and the AccuVote-OS Optical Scan Voting System (Version 1.96.4) have completed the Independent Testing Authority review and have been NASED qualified. The GEMS Election Management software 1.18.18 has completed this required testing as well and has been NASED qualified for use with both voting systems. The AccuVote-TS R6 (4.3.15) has been issued NASED # 010702-4.3.15-1990 while the AccuVote-OS Optical Scan Voting System (Version 1.96.4) has been issued NASED # 010701-1.96.4-1990. The GEMS (1.18.18) Election Management software has been issued NASED #03060011818.
September 2003	Diebold Election Systems, Inc. AccuVote-TS DRE Voting System	Supporting documentation indicates that the AccuVote-TS R6 DRE Voting System (Firmware release 4.3.14) has completed the Independent Testing Authority review and has been NASED qualified. The AccuVote-TS R6 DRE Voting System 4.3.14 includes GEMS Election Management software 1.18.15. The AccuVote-TS R6 (4.3.14) has been issued NASED # 010702-4.3.14-1990. The GEMS (1.18.15) Election Management software has been issued NASED #03060011815.

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September 2003	Voting Technologies International (VTI) Vōtware DRE Voting System	Supporting documentation has been provided to my office that indicates VTI's Vōtware DRE version 3.6.10 RC2 has completed the Independent Testing Authority review, has been NASED qualified and has been issued NASED # N03110003610-1990. It should be noted that during the June 4, 2003, test demonstration, the committee discovered that the Vōtware DRE Voting System will not allow a voter to cast a blank or protest ballot. While the ability to cast a blank ballot is ideal, the committee could not find anything in Arizona election law that requires this capability.
August 2003	Hart Intercivic, Inc. "eSlate" DRE Voting System	This supporting documentation indicates that the eSlate DRE Voting System 2.1 (Firmware release 1.16 – 7/12/02) has completed the Independent Testing Authority review and has been NASED qualified. The eSlate DRE Voting System 2.1 includes BOSS 2.9, Tally 2.9 (10-8-02), Ballot Now 1.5, JBC 1.16 and eSlate 1.16. The committee's recommendation does not include SERVO 1.02, which Hart Intercivic withdrew from consideration, and will test demonstrate at a later date. The eSlate DRE Voting System 2.1 has been issued NASED # 03040000021-1990, NASED # 0304000021A-1990 and NASED #0304000021B-1990.
July 2003	UniLect Corporation Patriot DRE Voting System	The UniLect Patriot Voting System completed the Independent Testing Authority review and has been NASED qualified. The UniLect Patriot Voting System has been issued the following NASED numbers: Precinct Control Unit (PCU 2.5.2) NASED # 011101 – PCU 2.52/VU 2.52 – 1990; Voter Unit (VU 2.5.2) NASED #011101 – PCU 2.52/VU 2.52 – 1990; Central Station 2.45 NASED #030500245-1990 (Intellect Software)

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July 2003	Avante International Technology (AI Technology) Vote-Trakker EVC 308	AI Technology's Vote-Trakker EVC 308 has completed Independent Testing Authority Review and has been issued NASED #N0114-4.4.3-1990 Firmware release 4.4.3
September 2002	Election Systems & Software (ES&S) Model 100	Election Systems & Software Model 100 Ver. 4.8.0.0. Precinct Ballot Counter Model 100 Ver. 4.8.0.0 has completed the Independent Testing Authority review and has been NASED qualified. The Model 100 Ver. 4.8.0.0 has been issued NASED #010101-4.8.0.0-1990 Release 4.8.0.0. Unity Election System Software Ver. 2.2
September 2002	Election Systems & Software (ES&S) Model 150	Election Systems & Software Model 150 Ver. 2.0.1.0. Central Ballot Counter Supporting documentation has been provided to my office that indicates that the Model 150 Ver. 2.0.1.0 has completed the Independent Testing Authority review and has been NASED qualified. The Model 150 Ver. 2.0.1.0 has been issued NASED #010101-4.8.0.0-1990 Release 2.0.1.0. Unity Election System Software Ver. 2.2
June 2002	Hart Intercivic, Inc. "eSlate" DRE Voting System	Hart Intercivic's JBC eSlate Direct Record Electronic (DRE) precinct voting machine (Firmware release 1.13.05) NASED # 011001-11305 Software BOSS Ver. 2.5.0.3; Tally 2.6.10 & Ballot Now Ver. 1.3.11 which were issued NASED # 030400-02503.

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March 2002	Diebold Election Systems AccuVote Touchscreen R6	AccuVote-TS R6 is a DRE Precinct Counter. The AccuVote-TS R6 is a touch screen system that uses SmartCard Technology. These cards store voter registration data for access to any Electronic Ballot Station. Upon completion of the voting process, results are stored on two separate and secure storage media, which can then be transmitted to a host server for accumulation. The system provides for an electronic, internal, redundant audit trail. The AccuVote-TS R6 has completed the Independent Testing Authority testing and has been issued NASED #N010702 Release 4011. The Global Election Management Systems (GEMS) Software accompanying this system has been issued NASED # N0306011717.
February 2002	Election Systems & Software (ES&S) Model 100 *(Previously AIS Model 100 – certified March 1997)*	Precinct-based, voter-activated paper ballot counter and vote tabulator. The Model 100 utilizes Intelligent Mark Recognition (IMR) visible red light scanning technology. The Model 100 utilizes precinct level voting and tabulation. The Model 100 uses an internal thermal printer to print election results and document an audit log of all unit transactions. The Model 100 has completed the Independent Testing Authority testing and has been issued NASED #N010103-474 Release 4.7.4. The Unity Election System Software Ver. 1.0 accompanying this system has been issued NASED # N03021000000.

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September 1999	Diversified Dynamics System 5 DVRS	Custom-designed circuit board with an AM486 microprocessor. EMS (Election Management Software) supports those aspects of the voting life cycle that occur outside the polling place. The DVRS utilizes a SCAD (Smart Card Activator Device) which is a microprocessor-based vehicle that allows polling place officers to encode smart cards used as vote keys. System 5 DVRS DRE Precinct Voting Machine and associated resident firmware Release 2.0.3.75R System 5 DVRS Software Version 1.0.3.78
August 1999	Election Systems & Software (ES&S) PBC-2100	PBC 100 Precinct Ballot Counter and associated machine resident firmware, HA4.06.AA5.04 . The qualification testing is limited to the operation of the PBC-2100 Voting Machine and its 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, early voting, etc.
August 1998	Election Systems & Software (Software system upgrades)	Optech III-P and Optech IV-C Software upgrades consistent with programming requirements for elections in the State of Arizona
July 1998	Fidlar & Chambers Co. EV 2000 and PC Ballot application	Voter Friendly voting device with ballot setup options easily operated by County Election Offices. Multiple recording of ballots cast offers appropriate security and ability to recount individually cast ballots. Ability to tabulate and release unofficial results at the precinct level as well as transmission of results to a central counting place followed by the physical presentation of an electronic card to confirm official results.

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October 1997	Global Elections ES2000 (Re-Certification due to Reader Lens Change)	Voter actuated, electronic, precinct based optical scan voting system
March 1997	American Information Systems, Inc. AIS Model 100	AIS Model 100 is classified as a Precinct Level O.M.R. ballot tabulator. This product is software driven and features a CCD Linear image sensor and the powerful Intel 386 processor.
July 1996	American Information Systems, Inc. AIS Model 150 and AIS Model 550	AIS-150 is a Centralized Optical Mark Reading (OMR) Voting System, using high speed optical mark readers in counting centers to process ballots. AIS-550 is a Centralized Optical Mark Reading (OMR) Voting System, using high speed optical mark readers in counting centers to process paper ballots.
April 1994	Global Election Systems Accu-Vote ES 2000	Precinct based optical scan electronic voting system.
February 1992	Global Election Systems (1) Chadfree ballot assembly punch (CF-1) (2) Bioptic read array for Documation card readers	(1) The CF-1 is a replacement part for punch card vote recording devices that eliminates the need for the use of prescored cards in the voting process. The CF-1 features a stylus that cuts a circular hole in non-prescored ballot card stock. (2) This modification allows the Documation card readers to read marks made with a number 2 pencil as well as punches.
November 1991	Business Records Corporation Optech III-P Eagle Optech IV-C	Optical scan vote tabulators Optech III-P Eagle: A precinct count system that is a self contained mark-sense ballot tabulator system located at the precinct polling site. Optech IV-C: A central count system that is a high speed central count mark-sense ballot tabulator.

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May 1990	Computer Election Systems Ballot Composition and Count System (BCCS) software	BCCS software, developed for use with any micro computer running MS-DOS version 3.0 or higher, programs punch card ballot formats and ballot tabulation systems using a PC.
May 1987	Business Records Corporation ETP Software with IBM-PC-BT Ballot Counting System	The Election Tabulation Program (ETP) eliminates the need for header cards and program option cards - these functions are done through the PC.
May 1987	VOTEC VOTEC Ballot Counting System VOTEC Ballot Management System	Operates on the Data General MV family of 32 bit minicomputers and for use on PC type microcomputers without restriction regarding the use of standard compatible peripherals. The ballot counting system requires a VOTEC manufactured precounter. The software provides a full variety of programming options.
February 1986	Sequoia Pacific Systems Corp. Data Vote MP 286, "Model A" and "MP Jr."	A ballot tabulation system to count punch cards. The software provides a full variety of programming options. NOTE: Further documentation is needed that demonstrates the ability to handle rotation in the office of State Representative.
October 1986	Pro-Data Corporation	Ballot counting equipment consisting of a Documation card reader, a Nova 4 CPU and a Matrix Dec Writer Printer. This hardware is capable of utilizing the software currently being used in Arizona (Alpha Tab BT-76).
March 1985	R.F. Shoup Corporation Shouptronic Voting Machine	An electronic voting device that is a combination of lever machine techniques coupled with highly sophisticated computer technology. The electronic voting device is used directly by the voter as opposed to the punch card voting system which utilizes electronic computer devices at a central location to tabulate cards punched by the voter at the precinct. NOTE: Component parts must be tested prior to official use and an alternative means for absentee voting must be devised.

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November 1985	Martin & Chapman Co. Micro Ballot Counter	The Micro Ballot Counter consists of a Documation card reader, a CPU with a prom pack containing program options and parameters for a variety of ballot options that function almost identical to the alpha ballot tab currently in use throughout Arizona. NOTE: Approval for use in state elections has been withheld pending further documentation that demonstrates the ability to handle rotation in the office of State Representative.

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