**Test Assertions for VVSG 1.1, Volume 1, Section 7.8**

**September 23, 2016**

**VVSG 1.1, Vol 1, Requirement 7.8:** **Voter Verifiable Paper Audit Trail Requirements**

This section contains requirements for DREs with a Voter Verifiable Paper Audit Trail (VVPAT) component, henceforth referred to as VVPAT voting systems. A VVPAT voting system shall consist minimally of the following fundamental components:

* + A voting device, on which a voter makes selections and prepares to cast a ballot;
	+ A printer that prints a paper record summary of the voter’s ballot selections, and that allows the voter to compare it with the electronic ballot selections;
	+ A mechanism by which the voter may indicate acceptance or rejection of the paper record;
	+ Ballot box/cartridge to contain accepted and voided paper records; and
	+ A paper record for each electronic ballot image. The paper record may be printed on a separate sheet for each record (“cut-sheet VVPAT”) or on a continuous paper roll (“paper-roll VVPAT”).

VVPAT capability is not required for national certification. However, these requirements will be applied for certification testing of DRE systems that are intended for use in states that require DREs to provide this capability. The manufacturer’s certification testing application to the EAC must indicate whether the system being presented for testing includes this capability, as provided under Subsection 1.5.1.4 extensions.

**Test Assertions**

**TA78-1:** IF a VVPAT capability is required THEN a VVPAT system SHALL consist, but not be limited to, the following components:

* A voting device;
* A printer;
* A mechanism by which the voter may indicate acceptance or rejection of the paper record;
* Ballot box/cartridge;
* A paper record for each electronic ballot image.

**TA78-1-1:** The voting device SHALL allow a voter to make selections.

**TA78-1-2:** The voting device SHALL allow a voter to prepare to cast a ballot.

**TA78-1-3:** The printer SHALL print a paper record summary of the voter’s ballot selections.

**TA78-1-4:** The printer SHALL allow the voter to compare the paper record summary of the voter’s ballot selections with the electronic ballot selections.

**TA78-1-5:** The ballot box/cartridge SHALL contain accepted paper records.

**TA78-1-6:** The ballot box/cartridge SHALL contain voided paper records.

**TA78-1-7:** The paper record MAY be printed on a separate sheet for each record (“cut-sheet VVPAT”).

**TA78-1-8:** The paper record MAY be printed on a continuous paper roll (“paper roll VVPAT”).

**TA78-2:** The manufacturer’s certification testing application to the EAC SHALL indicate whether the system being presented for testing includes the VVPAT capability, as provided under Subsection 1.5.1.4 extensions.