

**NEW JERSEY DIVISION OF GAMING ENFORCEMENT
TECHNICAL SERVICES BUREAU**

CARD SHUFFLER HARDWARE & SOFTWARE SUBMISSION

A. Hardware Identification

Hardware Description: _____
Hardware ID: _____ Version: _____

B. Software Identification

Software Description: _____
Program ID: _____ Program Version: _____
Memory Device: EPROM Flash* Other _____
* Describe flash memory type: _____
Signature: _____ Location: _____

C. New/Modification

Is the above shuffler hardware and program a new submission or a modification of a previously approved version?

Hardware: New Modification
Software: New Modification

1) If New, submit all materials required by N.J.A.C. 19:46-128A for a prototype submission.

2) If Modification:

1. Attach a list and description of all changes made to the versions referenced in section A and B. For example, provide a sequential description of the converted "dif" files on any submitted program. For each change, include the module affected and the reason.

2. Please state the prior version and approval file numbers:

Hardware: Prior Version _____ File # _____
Software: Prior Version _____ File # _____

3. Is this a mandatory replacement? Yes No
If yes, state reason:

(Attach a separate sheet if more space is needed)

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- 4. The items are “backward” compatible without limitations. Yes No

Describe limitations if applicable. _____

- 5. Attach complete list of all known issues and their impact, such as those found during testing and/or field issues reported in other jurisdictions. If applicable, explain the problematic scenario observed that prompted the particular modification.
- 6. List all outstanding issues resolved since the last approved version. Explain how they are resolved in this version. Highlight all changes that have been made in description.

D. Random Number Generator

- 1) Provide file number approving RNG. _____
file #

If not approved, submit all relevant material for analysis (i.e. source code, software to generate random numbers, hardware connectors, RNG’s technical documentation). The submitted material is not limited to but must also include the following information:

- 1) Name of the RNG
- 2) Tests performed to verify randomness.
(Example: Monobit test, Runs test, Long runs test. More detailed test scenarios are outlined in the NIST Special Publication 800-22)

Important: All documentation containing test results must be signed and verified by the Engineer or Mathematician performing the test analysis.

E. Results of operational testing

- 1) List type, size, and number of cards used in testing the shuffler.

- 2) Attach a complete list of all issues encountered during each test scenario and their impact on the outcome of the shuffle. Provide a detailed description of the steps taken to resolve the issues.
- 3) Technical documentations and user notes must include at the very least the following information:
 - 1. Detailed schematic drawings of the shuffler and its parts and components.
 - 2. Description of how the memory devices are flashed and the security measures that are in place that protects the content of such memory devices.
 - 3. A list of instructions or procedures to operate the shuffler.

