TECHNICAL STANDARDS FOR GAMING DEVICES <u>AND ON-LINE SLOT SYSTEMS</u>

(Amendments Adopted by the Nevada Gaming Commission on 05/22/03)

[1.010] Definitions. As used in these standards unless the context requires otherwise:

- 1. "Cashable credits" means the monetary units displayed on a credit meter that are redeemable for cash.
- **2** [1]. "Chairman"... **No change.**
- 3. "Credit meter" means a slot machine indicator that displays the number of denominational credits or monetary value available to a patron for wagering.
- 4. "Debit instrument" means a card, code or other device with which a person may initiate an electronic funds transfer or a wagering account transfer.
- <u>5. "Electronic funds transfer" means a transfer of funds from an independent financial institution to a gaming device through a cashless wagering system.</u>
- [2. "Leakage Current" is any electrical current which flows when a conductive path is provided between exposed portions of a gaming device and the environmental electrical ground when the gaming device is isolated from the normal AC power ground.]
- 6 [3]. "Inappropriate coin-in"... No change.
- 7. "Leakage Current" is any electrical current which flows when a conductive path is provided between exposed portions of a gaming device and the environmental electrical ground when the gaming device is isolated from the normal AC power ground.
- 8. "Non-cashable credits" means the monetary units displayed on a credit meter that have no cash redemption value.
- 9. "On-line slot system" means, as used in these standards, an on-line slot metering system, a cashless wagering system, or both.
- 10. "Promotional account" means an electronic ledger used in a cashless wagering system to record transactions involving a patron or patrons that are not otherwise recorded in a wagering account.
- 11 [4]. "Random Access Memory"... No change.
- 12 [5]. "Random Number Generator"... No change.

- 13 [6]. "Read Only Memory"... No change.
- 14. "Slot machine coupon" means a printed wagering instrument that has a fixed dollar wagering value that can only be used to acquire non-cashable credits.
- 15. "Slot machine payout receipt" means an instrument that is redeemable for cash and is either issued by a gaming device or as a result of a communication from a gaming device to associated equipment that cannot be accepted by gaming devices for wagering purposes.
- 16. "Slot machine wagering voucher" means a printed wagering instrument that has a fixed dollar wagering value that can only be used to acquire an equivalent value of cashable credits or cash.
- 17 [7]. "Tilt condition"... No change
- 18. "Wagering account" means an electronic ledger for a cashless wagering system patron deposit account wherein only the following types of transactions are recorded:
- (a) Deposits and withdrawals of cash or cash equivalents at a designated area of accountability;
- (b) Deposits initiated with a debit instrument;
- (c) Wagering account transfers to and from gaming devices;
- (d) Wagering account adjustments; and
- (e) Other transactions approved by the chairman.
- 19. "Wagering account transfer" means a transfer of funds between a cashless wagering system wagering account and a gaming device.
- 20. "Wagering instrument" means, as used in these standards, a representative of value, other than a chip or token, that is issued by a licensee and approved by the board for use in a cashless wagering system and includes slot machine coupons and slot machine wagering vouchers.

 (Adopted 9/89. Amended; 11/20/97; 5/03.)

STANDARD 1

INTEGRITY OF DEVICES

1.010 Reserved.

1.020 through 1.030 **No change.**

- 1.035 Change vouchers or coupons.
- 1. A wagering instrument inserted into a gaming device that is less in amount than that gaming device's smallest denomination shall:

- (a) Cause that gaming device to immediately reject the wagering instrument if that gaming device does not have an odd cents meter; or
- (b) Allow for the additional accumulation of wagering credits if the gaming device has an odd cents meter.
- 2. A wagering instrument inserted into a gaming device that is greater in amount than that gaming device's smallest denomination and not evenly divisible by any of the gaming device's denominations shall:
- (a) Cause that gaming device to immediately issue a change voucher or coupon if that gaming device does not have an odd cents meter and is equipped with a printer mechanism;
- (b) Allow for the additional accumulation of wagering credits; or
- (c) Cause that gaming device to immediately reject the wagering instrument if that gaming device is not equipped with a printer mechanism or if the printer mechanism is not functioning for any reason.

(Adopted: 5/03. Effective: 2/1/04.)

1.040 **No change.**

1.045 Printers. Printer mechanisms on gaming devices must be designed to detect low paper, paper out, and paper jam conditions. The device control program must monitor the printer mechanism for these error conditions in all active game states that do not indicate error conditions.

(Adopted: 5/03. Effective: 2/1/04.)

1.050 and 1.060 No change.

1.070 Error conditions.

- 1. No change.
- 2. Gaming devices must be capable of detecting and displaying the following error conditions which may only be cleared by an attendant:
- (a) through (f) No change.
- (g) [Effective 2/1/04] Printer mechanism paper jam.
- (h) [Effective 2/1/04] Printer mechanism paper out, if the gaming device has no other means to make a payout.
- 3. Gaming devices must be capable of detecting and displaying the following error conditions which may either be cleared by an attendant or upon initiation of a new play sequence if the error condition is transparent to the player, or if the error condition is clear to the player and the player is informed that initiation of a new play will clear the error:
 - (a) through (c) **No change.**

(d) [Effective 2/1/04] Printer mechanism low paper.

4. No change.

(Adopted 9/89. Amended: 5/03. Effective: 9/89 except (2)(g), (2)(h) and (3)(d) as noted.)

1.080(1) through (7). **No change.**

8. [Effective 2/1/04] All gaming devices must have the capacity to display a complete transaction history for the most recent transaction with a cashless wagering system, and the previous thirty-four transactions prior to the most recent transaction, that incremented any of the in-meters set forth in Technical Standard 2.040(1)(i) through (s) and that incremented any of the out-meters set forth in Technical Standard 2.040(1)(i) through (s). Retention of transaction history for additional prior transactions is encouraged.

(Adopted: 9/89. Amended: 11/20/97; **5/03. Effective: 11/20/97 except (8) as noted.**)

1.090 **No change.**

STANDARD 2

PROPER ACCOUNTING FOR GAMING DEVICES

2.010 Changes to payout percentage

- 1. No change.
- 2. No change.
- 3. [Effective until 2/1/04] Gaming devices which are considered to be slot machines and which have a difference in theoretical payback percentage which exceeds 4 percent for a single-coin play versus maximum-bet play, must have electronically stored digital meters of at least 6 digits which record the number of plays made in each category of wager for which the theoretical payback percentage is different from the single-coin bet category.

(Adopted: 9/89. **Amended: 5/03.**)

2.020 and 2.030 **No change.**

- 2.040 **[Effective until 2/1/04]** Meters.
- 1. All gaming devices must be equipped with electronic digital storage meters of at least eight digits that can be displayed upon demand and that accumulate the following information in units equal to the denomination of the device, in dollars and cents or in other units approved by the chairman:

- (a) The total value of all wagers, whether the wagered amount comes from the insertion of coin or tokens, currency, deduction from a credit meter or any other means (Coin In). This meter shall not include subsequent wagers made on "double-up" games;
- (b) The total value of all amounts directly paid by the machine as a result of winning wagers, whether the payout is made via the hopper or to a credit meter (Coin Out). This meter shall include payouts from the final outcome of "double-up" games;
 - (c) The total value of coins or tokens diverted to the drop (Coins Dropped);
- (d) The total value of jackpots paid by an attendant (Jackpot Pays). The amount accumulated on this meter excludes any payments recorded on the Coin Out meter. In the case of a cash or non-cash progressive, mystery or bonus award, the attendant pay meter must reflect the actual award if the amount is electronically communicated to the gaming device or, if not electronically communicated, the base value of the award as reflected on the manufacturer's par percentage sheet;
 - (e) The total value of coins or tokens inserted into the gaming device (Physical Coin In);
 - (f) The total value of coins or tokens paid out by the hopper (Physical Coin Out);
 - (g) The total value of the currency accepted, if the device has a currency acceptor (Bills In);
- (h) The total value of each type of other instrumentalities, wagering credits, or wagering instruments inserted or otherwise transferred to the device which result in giving the patron a wager or credits to make a wager, if the device accepts such instrumentalities (Other Instrumentalities In);
- (i) The total value of credits paid by each means other than payout from the hopper or jackpot payouts recorded on the meter required by 2.040(1)(d), if the device has such provisions (Credits Canceled); and
- (j) The total value of additional amounts paid as a result of an external bonusing system if the device has the provisions for interfacing with such a system (Bonus Payouts).
- (k) Any other meter(s) that the chairman may require to provide for a full and complete accounting of monies or instrumentalities in or out of the gaming device.
 - 2. All gaming devices must be equipped with either:
- (a) Electro-mechanical nonresetable counters having at least six digits that accumulate Coin In as described in 2.040(1)(a), Coin Out as described in 2.040(1)(b) and Drop, which is the sum of the Coins Dropped as described in 2.040(1)(c) and Bills In as described in 2.040(1)(g), or
- (b) A device, mechanism or method which retains the value of all of the required meters in 2.040(1) in the event of loss of power to the device or replacement of the primary logic board.
 - 3. Electro-mechanical meters, if used, must have an accuracy of 0.1 percent or better.

- 4. Gaming devices that use electro-mechanical meters must be designed so that replacement of parts or modules required for normal maintenance does not necessitate replacement of the electro-mechanical meters.
- 5. Gaming devices must have an electronically stored digital meter of at least 3 digits for the number of plays since power on and the number of plays since door closure. When the maximum value has been reached, the meters must remain at that value until reset by occurrence of the appropriate event. The gaming device must provide the means for on-demand display of the stored information.
- 6. Unless a tilt condition or other malfunction exists, gaming devices must have meters in units equal to the denomination of the device, in dollars and cents or in other units approved by the chairman, continuously displaying to a player the following information as it pertains to the current play or monetary transaction:
 - (a) The coins or credits wagered;
 - (b) The coins or credits won, if applicable;
 - (c) The coins paid by the hopper for a credit cash-out or a direct pay from a winning outcome;
 - (d) The credits available for wagering, if applicable.
- 7. Electronically stored meter information required by this section must be preserved for a minimum of 72 hours after a power loss to the gaming device.

(Adopted: 9/89. Amended: 11/20/97; 5/03.)

2.040 [Effective 2/1/04] Meters.

- 1. All gaming devices must be equipped with electronic digital storage meters of at least 10 digits capable of displaying the information listed in this section on demand. These meters, listed below, must accumulate the following information in units equal to the denomination of the device or in dollars and cents. Devices configured for multi-denomination play must display the required information in dollars and cents.
- (a) Coin In. The machine must have a meter specifically labeled "Coin In" that accumulates the total value of all wagers, whether the wagered amount results from the insertion of coins, tokens, currency, deduction from a credit meter or any other means. This meter shall:
- (1) Not include subsequent wagers of intermediate winnings accumulated during game play sequence such as those acquired from "double up" games;
- (2) For multi-game and multi-denomination/multi-game gaming devices, provide the information necessary, on a per paytable basis, to calculate a weighted average theoretical payback percentage; and
- (3) For gaming devices which are considered slot machines and which contain paytables with a difference in theoretical payback percentage which exceeds 4 percent between wager categories, maintain and display coin in meters and the associated theoretical payback

percentage, for each wager category with a different theoretical payback percentage, and calculate a weighted average theoretical payback percentage for that paytable.

- (b) Coin Out. The machine must have a meter specifically labeled "Coin Out" that accumulates the total value of all amounts directly paid by the machine as a result of winning wagers, whether the payout is made from the hopper, to a credit meter or by any other means. This meter will not record amounts awarded as the result of an external bonusing system or a progressive payout;
- (c) Coin Drop. The machine must have a meter specifically labeled "Coin Drop" that accumulates the total value of coins or tokens diverted to the drop;
- (d) Attendant Paid Jackpots. The machine must have a meter specifically labeled "Attendant Paid Jackpots" that accumulates the total value of credits paid by an attendant resulting from a single winning alignment or combination, the amount of which is not capable of being paid by the machine itself. This does not include progressive amounts or amounts awarded as a result of an external bonusing system. This meter is only to include awards resulting from a specifically identified amount listed in the manufacturer's par sheet;
- (e) Attendant Paid Cancelled Credits. The machine must have a meter specifically labeled "Attendant Paid Cancelled Credits" that accumulates the total value paid by an attendant resulting from a player initiated cash-out that exceeds the physical or configured capability of the machine to make the proper payout amount;
- (f) Physical Coin In. The machine must have a meter specifically labeled "Physical Coin In" that accumulates the total value of coins or tokens inserted into the machine;
- (g) Physical Coin Out. The machine must have a meter specifically labeled "Physical Coin Out" that accumulates the value of all coins or tokens physically paid by the machine;
- (h) Bill In. The machine must have a meter specifically labeled "Bill In" that accumulates the total value of currency accepted. Additionally, the machine must have a specific meter for each denomination of currency accepted that records the number of bills accepted of each denomination;
- (i) Voucher In. The machine must have a meter specifically labeled "Voucher In" that accumulates the total value of all slot machine wagering vouchers accepted by the machine;
- (j) Voucher Out. The machine must have a meter specifically labeled "Voucher Out" that accumulates the total value of all slot machine wagering vouchers and payout receipts issued by the machine;
- (k) Electronic Funds Transfer In (EFT In). The machine must have a meter specifically labeled "EFT In" that accumulates the total value of cashable credits electronically transferred from a financial institution to the machine through a cashless wagering system;

- (l) Wagering Account Transfer In (WAT In). The machine must have a meter specifically labeled "WAT In" that accumulates the total value of cashable credits electronically transferred to the machine from a wagering account by means of an external connection between the machine and a cashless wagering system;
- (m) Wagering Account Transfer Out (WAT Out). The machine must have a meter specifically labeled "WAT Out" that accumulates the total value of cashable credits electronically transferred from the machine to a wagering account by means of an external connection between the machine and a cashless wagering system;
- (n) Non-Cashable Electronic Promotion In. The machine must have a meter specifically labeled "Non-Cashable Electronic Promotion In" that accumulates the total value of non-cashable credits electronically transferred to the machine from a promotional account by means of an external connection between the machine and a cashless wagering system;
- (o) Cashable Electronic Promotion In. The machine must have a meter specifically labeled "Cashable Electronic Promotion In" that accumulates the total value of cashable credits electronically transferred to the machine from a promotional account by means of an external connection between the machine and a cashless wagering system;
- (p) Non-Cashable Electronic Promotion Out. The machine must have a meter specifically labeled "Non-Cashable Electronic Promotion Out" that accumulates the total value of non-cashable credits electronically transferred from the machine to a promotional account by means of an external connection between the machine and a cashless wagering system;
- (q) Cashable Electronic Promotion Out. The machine must have a meter specifically labeled "Cashable Electronic Promotion Out" that accumulates the total value of cashable credits electronically transferred from the machine to a promotional account by means of an external connection between the machine and a cashless wagering system;
- (r) Coupon Promotion In. The machine must have a meter specifically labeled "Coupon Promotion In" that accumulates the total value of all slot machine coupons accepted by the machine;
- (s) Coupon Promotion Out. The machine must have a meter specifically labeled "Coupon Promotion Out" that accumulates the total value of all slot machine coupons issued by the machine;
- (t) Machine Paid External Bonus Payout. The machine must have a meter specifically labeled "Machine Paid External Bonus Payout" that accumulates the total value of additional amounts awarded as a result of an external bonusing system and paid by the slot machine;
- (u) Attendant Paid External Bonus Payout. The machine must have a meter specifically labeled "Attendant Paid External Bonus Payout" that accumulates the total value of amounts awarded as a result of an external bonusing system paid by an attendant;

- (v) Attendant Paid Progressive Payout. The machine must have a meter specifically labeled "Attendant Paid Progressive Payout" that accumulates the total value of credits paid by an attendant as a result of progressive awards that are not capable of being paid by the machine itself;
- (w) Machine Paid Progressive Payout. The machine must have a meter specifically labeled "Machine Paid Progressive Payout" that accumulates the total value of credits paid as a result of progressive awards paid directly by the machine. This meter does not include awards paid as a result of an external bonusing system; and
 - (x) Such other meters as may be required by the chairman.
- 2. Gaming devices that are unable to comply with the full requirements of Technical Standard 2.040(1) shall:
- (a) For gaming devices that are unable to display the specific meter labels required, use a legend to indicate what information a specific meter accumulates.
- (b) For gaming devices that are unable to incorporate meters (i) through (w) due to undue hardship on the gaming device manufacturer, not be required to incorporate such meters if this requirement is waived by the chairman.
- 3. All gaming devices must be equipped with a device, mechanism or method which retains the value of all the required meters in 2.040(1) in the event of power loss to the device.
- 4. Gaming devices must have electronically stored meters of at least 8 digits that record the number of games played:
 - (a) Since power reset;
 - (b) Since door close; and
 - (c) Since game initialization (RAM clear).

The gaming device must provide the means for on-demand display of the stored information.

- 5. Unless a tilt condition or other malfunction exists, gaming devices must have meters in units equal to the denomination of the device, in dollars and cents or in other units approved by the chairman, continuously displaying to a player the following information as it pertains to the current play or monetary transaction:
 - (a) The coins or credits wagered;
 - (b) The coins or credits won, if applicable;
- (c) The coins paid by the hopper for a credit cash-out or a direct pay from a winning outcome;
 - (d) The credits available for wagering, if applicable.
- <u>6. Electronically stored meter information required by this section must be preserved for a minimum of 72 hours after a power loss to the gaming device.</u>

(Adopted: 9/89. Amended: 11/20/97; 5/03.)

- 2.050 [Effective until 2/1/04] Credit play requirements.
- 1. Collectible credits may be accumulated from wins or from approved currency acceptors. Collectible credits may be accumulated directly from coin or token acceptance if the gaming device uses a coin/token acceptor that accepts or rejects on the basis of the metallic composition of the coins being used. The aggregate total of collectible credits accumulated from currency must be less than \$3,000.
- 2. The maximum number of credits from currency that may be applied to any wager on a gaming device must be less than \$3,000, except that repeated double-down (double or nothing) bets are allowed up to the ultimate lock-up level of the device.

(Adopted: 9/89. Amended: 11/20/97; **5/03**.)

2.050 [Effective 2/1/04] Credit play requirements.

- 1. Cashable credits may be accumulated from wins, approved currency acceptors, electronic funds transfers, wagering account transfers, or any other transfers of cashable credits.

 Cashable credits may be accumulated directly from coin or token acceptance if the gaming device uses a coin/token acceptor that accepts or rejects on the basis of the metallic composition of the coins being used. The aggregate total of cashable credits accumulated from coin and currency must be less than or equal to \$3,000.
- 2. The maximum number of credits from currency that may be applied to any wager on a gaming device must be less than or equal to \$3,000, except that repeated double-down (double or nothing) bets are allowed up to the ultimate lock-up level of the device.
 - 3. Wagering credits available for play must be wagered in the following order:
 - (a) Non-cashable credits;
 - (b) Cashable credits given away by a licensee; and
 - (c) All other credits.

(Adopted: 9/89. Amended: 11/20/97; 5/03.)

2.060 **No change.**

STANDARD 3

INTEGRITY OF AND PROPER ACCOUNTING FOR ON-LINE SLOT SYSTEMS

3.010 Communication security. The on-line slot system shall include secured communication as follows:

- 1. All communications that initiate a gaming device pay command shall employ some form of encryption that has been approved by the chairman.
- 2. All data communication shall incorporate an error detection and correction scheme approved by the Chairman to ensure the data is transmitted and received accurately. (Adopted: 5/03. Effective: 8/22/04.)
- 3.020 Error conditions. The on-line slot system shall be capable of detecting and displaying certain conditions. These conditions shall be recorded on an error log that may be displayed or printed on demand, and shall archive the conditions for a minimum of thirty days. The conditions include but are not limited to:
 - 1. Power reset or failure of a gaming device or any component of the on-line slot system.
- 2. Communication loss between a gaming device and any component of the on-line slot system.

(Adopted: 5/03. Effective: 8/22/04.)

- 3.030 Program access control. The on-line slot system shall be capable of restricting or limiting access to any and all program components by a method approved by the chairman. (Adopted: 5/03. Effective: 8/22/04.)
- 3.040 Data access control. The on-line slot system shall not permit the alteration of any accounting or event log information that was properly communicated from the gaming device unless documented, secure access controls are provided.

(Adopted: 5/03. Effective: 8/22/04.)

3.050 On-line system clock.

- 1. The on-line slot system shall maintain an internal clock that accurately reflects the current time (in hours, minutes and seconds) and date that shall be used to provide for the following:
- (a) Time stamping of significant events;
- (b) Reference clock for reporting;
- (c) Time stamping of configuration changes.
- 2. If multiple clocks are used, then a means shall be provided that will update all clocks in devices attached to the system, including the gaming devices, at least once in each 24-hour period.

(Adopted: 5/03. Effective: 8/22/04.)

3.060 On-line slot system integrity.

1. The on-line slot system shall be designed so that no single failure of any system component will cause the cessation of system operation. Alternatively, each gaming establishment must provide for back-up components or systems using a plan approved by the chairman.

2. The database shall be stored on redundant media so that no single failure of any portion of the system would cause the loss or corruption of data.

(Adopted: 5/03. Effective: 8/22/04.)

3.070 Interface with gaming device.

- 1. Each gaming device interfaced with an on-line slot system using an interface component shall have the interface component either installed inside a secure area of the gaming device or shall employ a secure communication method between the gaming device and the interface component.
- 2. The interface component shall send information to the on-line slot system via a communication protocol approved by the chairman.
- 3. A system shall be designed such that communications that access gaming device components, including but not limited to, bill validators, hoppers and printers, may only access those components through a processor that has been approved using the standards and criteria for a gaming device.

(Adopted: 5/03. Effective: 8/22/04.)

3.080 Clearing meters. An interface component shall have a mechanism whereby an error will not cause the loss of stored accounting meter information.

(Adopted: 5/03. Effective: 8/22/04.)

3.090 Meter backup requirements. Data recorded by electronic meters shall be preserved after a power loss to an interface component and shall be maintained for a period of at least seventy-two (72) hours.

(Adopted: 5/03. Effective: 8/22/04.)

3.100 Address requirements. Interface components shall allow for the configuration of a unique identification number to be used in conjunction with the gaming device file in the online slot system. This identification number will be used by the on-line slot system to track all mandatory information of the associated gaming device.

(Adopted: 5/03. Effective: 8/22/04.)

- 3.110 Required meters. The on-line slot metering system shall be equipped to read specific values of or store the information accumulated by the electronic digital storage meters in the gaming device. The following meter information is stored in units equal to the denomination of the device or in dollars and cents:
 - 1. Coin in.
 - 2. Coin out.
 - 3. Coin drop.
 - 4. Attendant paid jackpots.
 - 5. Attendant paid cancelled credits.

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- 6. Physical coin in.
- 7. Physical coin out.
- 8. Bill in.
- 9. Voucher out (for the metering of payout receipts).
- 10. Machine paid external bonus payout.
- 11. Attendant paid external bonus payout.
- 12. Attendant paid progressive payout.
- 13. Machine paid progressive payout.
 - Note 1: System meters shall be referred to with the above terms and shall accumulate the information as required by Technical Standard 2.040.
 - Note 2: The system shall maintain paytable coin-in and theoretical payback percentage information provided by the gaming device for each multi-game or multi-denomination/multi-game slot machine.
 - Note 3: The system shall maintain paytable coin-in and weighted average theoretical payback percentage information provided by each gaming device which is considered a slot machine and which contains paytables with a difference in theoretical payback percentage which exceeds 4 percent between wager categories.

(Adopted: 5/03. Effective: 8/22/04.)

3.120 Recording of meter information. An on-line slot metering system must have a mechanism in place to record all required meters, as specified by Technical Standard 3.110, on demand and at the time a drop box (coin or currency) is removed.

(Adopted: 5/03. Effective: 8/22/04.)

3.130 Payout receipts. Systems that issue a printed payout receipt shall:

- 1. Include on all payout receipts:
- (a) Licensee name, city and state;
- (b) Gaming device number;
- (c) Date and time of issuance;
- (d) Alpha and numeric dollar amount;
- (e) Sequence number;
- (f) Expiration period or date when receipt will expire, if applicable.
- 2. Only allow the printing of a payout receipt upon a communication initiated by a gaming device.
- 3. Provide for on-line, real-time validation of payout receipts.
- 4. Be incapable of authorizing payment on a payout receipt that has been previously paid, voided, or that is unissued.

<u>5. For payout receipts printed at a gaming device, not allow an expiration period of less than thirty days.</u>

(Adopted: 5/03. Effective: 8/22/04.)

3.140 Documentation required of on-line slot metering systems. Documentation generated by an on-line slot metering system indicating information by slot machine, by denomination and in total, shall be available on a day, month, year-to-date basis and for at least a previous two-year cumulative basis. The system shall be designed so that documentation may be created daily or on demand and includes, at a minimum:

1. For each document:

- (a) Document title;
- (b) Version number of the current system software;
- (c) Date or time period of activity; and
- (d) Date and time the document was generated.

Note: Documents that compare metered amounts to actual amounts shall include a dollar variance and a percentage variance. The percentage variance is the dollar variance divided by the metered amount.

2. Slot machine performance including:

- (a) By machine:
- (1) Denomination or an indication that the machine is a multi-denomination machine;
- (2) Slot machine number and game type;
- (3) Coin in;
- (4) Metered or actual drop (system configurable);
- (5) Actual jackpot payout slips issued;
- (6) Actual fill slips issued;
- (7) Win;
- (8) Theoretical hold percentage;
- (9) Actual hold percentage;
- (10) Percentage variance (theoretical hold vs. actual hold); and
- (11) Projected dollar variance (i.e., coin in times the percentage variance).

(b) By denomination and in total:

- (1) Weighted average theoretical hold (i.e., floor par);
- (2) Combined actual hold percentage (all win divided by all coin in);
- (3) Percentage variance (floor par vs. combined actual hold percentage); and
- (4) Projected dollar variance (i.e., total coin in times the percentage variance).
 - Note 1: Floor pars are the sum of the theoretical hold percentages of all machines within a denomination weighted by coin in contribution.
 - Note 2: Drop, fills, jackpot payouts, and win figures may need adjustment to

determine the true slot machine performance.

- Note 3: The system shall compute accurate theoretical hold percentages, based on coin-in contribution, for each multi-game or multi-denomination/multi-game slot machine.
- Note 4: The system shall compute accurate theoretical hold percentages for each gaming device which is considered a slot machine and which contains paytables with a difference in theoretical payback percentage which exceeds 4 percent between wager categories.
- 3. Meter drop vs. actual drop for each drop type (coin and bills), by machine and in total.
- 4. Meter attendant paid jackpots, cancelled credits, progressive payouts and external bonus payouts (in total) vs. actual attendant paid jackpots, cancelled credits, progressive payouts and external bonus payouts (in total).
 - Note: The system must produce a report (by machine and in total) that compares each type of attendant pay for those machines that have variances.
- 5. Meter fills vs. actual fills.
 - Note: Meter fills equal "Meter physical coin in" "Meter physical coin out" "Meter coin drop".
- <u>6. Meter machine paid and attendant paid external bonus payouts vs. external bonusing system machine paid and attendant paid external bonus payouts.</u>
- 7. Meter voucher out vs. system payout receipts issued.
- 8. System payout receipts redeemed, by cashiering station, by shift.
- 9. System payout receipts issued, to include date issued, amount, sequence number and identification of gaming device where issued.
- 10. System payout receipt liabilities, by date issued and receipt sequence number.
- 11. Meter win vs. actual taxable win.
 - Note: "Meter win" equals "meter coin in" (-) "meter coin out" (-) "meter machine paid progressive payout" (-) "meter machine paid external bonus payout" (-) "total of meters accumulating attendant payouts" (excluding attendant paid cancelled credits).
- 12. Exception report. In the event data or parameters are changed, an exception report shall be produced to document:

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- (a) Data or parameter altered;
- (b) Data or parameter value prior to alteration;
- (c) Data or parameter value after alteration;
- (d) Date and time of alteration; and
- (e) Identification of user that performed alteration.
- 13. By machine, a report of all required meter amounts read and recorded by the on-line slot system.

(Adopted: 5/03. Effective: 8/22/04.)

- 3.150 Additional requirements for cashless wagering systems. In addition to those requirements set forth for on-line slot metering systems, and except for those requirements described in Technical Standards 3.110 through 3.140, all cashless wagering systems submitted for approval shall:
- 1. Prevent the direct wagering at a gaming device or an electronic funds transfer to a gaming device through the use of a credit card.
- 2. In the event of debit instrument transactions, execute such transactions in accordance with all applicable state and federal electronic funds transfer requirements or wagering account transfer requirements including receipting and fee disclosure requirements. Additionally, for electronic funds transfers, the cashless wagering system must provide for a configurable daily transfer limit which must not exceed \$1,000 per day per debit instrument.
- 3. Employ some form of data encryption that has been approved by the chairman for all data that is transmitted to or from a gaming device. This standard does not apply to data that is transmitted between a gaming device and a gaming device interface component.
- 4. Provide a secure method for patron access to wagering accounts and promotional accounts.
- <u>5. For all patron initiated transactions, assign to each transaction a unique identifier of at least eight digits that includes the gaming device designation.</u>
- <u>6. Be equipped to read and store the specific values indicated on the electronic digital storage meters in the gaming device, as applicable to the system. The following gaming device meter information is stored in units equal to the denomination of the device or in dollars and cents:</u>
 - (a) Voucher in.
 - (b) Voucher out (for the metering of slot machine wagering vouchers and payout receipts).
 - (c) Electronic funds transfer in (EFT In).
- (d) Wagering account transfer in (WAT In).
- (e) Wagering account transfer out (WAT Out).
- (f) Cashable electronic promotion in.
- (g) Cashable electronic promotion out.
- (h) Non-cashable electronic promotion in.
- (i) Non-cashable electronic promotion out.

- (j) Coupon promotion in.
- (k) Coupon promotion out.
 - Note: System meters shall be referred to with the above terms and shall accumulate applicable system generated information as well as information stored on gaming device meters as required by Technical Standard 2.040.
- 7. Have a mechanism in place to record all required meters, as specified by Technical Standard 3.150(6), at the time a drop box (coin or currency) is removed and at any time specified by the end user.
- 8. Prevent an expiration period of less than thirty days for slot machine wagering vouchers.
- 9. Include on all slot machine wagering vouchers and coupons:
- (a) Licensee name, city and state;
- (b) Gaming device number or printer station number, as applicable;
- (c) Date and time of issuance;
- (d) Alpha and numeric dollar amount;
- (e) Sequence number;
- (f) Validation number;
- (g) Second printing of validation number on the leading edge of the voucher or coupon;
- (h) Unique identifier (e.g., bar code);
- (i) Transaction type or other acceptable method of differentiating ticket types; and
- (j) Expiration period or date when voucher or coupon will expire, if applicable.
- 10. Cause a relevant, informative message to be displayed whenever any player-initiated wagering account transfer or electronic funds transfer is being processed.
- 11. In the event communications between the system and a gaming device are lost, allow no more than one wagering instrument to be printed.
- 12. Require all electronic funds transfers to be recorded by the system.
- 13. Provide for on-line, real-time validation of wagering instruments or debit instruments, as applicable.
- 14. Be incapable of authorizing payment on a wagering instrument that has been previously paid, voided, or that is unissued, and the system shall display the status of the instrument.
- 15. Prevent the removal or erasure of events and transactions from any communication device until that information has been successfully transferred and acknowledged by the communication device next in succession.
- 16. Be designed to prevent unauthorized changes to cashless wagering system programs and databases.

- 17. Require the end user to initiate any remote access and shall only allow remote access by the system's licensed manufacturer from that manufacturer's place of business.

 (Adopted: 5/03. Effective: 8/22/04.)
- 3.160 Documentation Required of Cashless Wagering Systems. Documentation generated by a cashless wagering system shall be available on a day, month, year-to-date basis and for at least a previous two-year cumulative basis. The system shall be designed so that documentation may be created daily or on demand and includes, at a minimum:
 - 1. For each document:
- (a) Document title;
- (b) Version number of the current system software;
- (c) Date or time period of activity; and
- (d) Date and time the document was generated.
- 2. Wagering instrument issuances by date and identification of gaming device where issued, by gaming device.
- 3. Wagering instrument redemptions by date and means of redemption (e.g., gaming device, cashier station, kiosk, etc.).
- 4. Wagering instrument liabilities by date issued and by instrument sequence number.
- 5. Wagering instruments expired by date issued, sequence number and identification of gaming device where issued.
- <u>6. Wagering instruments voided by date issued, instrument sequence number and identification of gaming device where issued.</u>
- 7. Debit instrument (i.e., wagering account) activity and balances, by patron and gaming device and shall include the date and time of each transfer to or from each gaming device.
- 8. Vouchers and coupons counted in the count room, by gaming device and by type of instrument.
- 9. Gaming device meter EFT in vs. system EFT in.
- 10. Gaming device meter WAT in vs. system WAT in.
- 11. Gaming device meter WAT out vs. system WAT out.
- 12. System promotional account activity and balances, by patron or by promotion, as applicable.

- 13. System wagering account activity (deposits, transfers to and from gaming devices, withdrawals, adjustments) and balances, by wagering account.
- 14. Gaming device meter cashable electronic promotion in vs. system cashable electronic promotion in.
- 15. Gaming device meter cashable electronic promotion out vs. system cashable electronic promotion out.
- 16. Gaming device meter non-cashable electronic promotion in vs. system non-cashable electronic promotion in.
- 17. Gaming device meter non-cashable electronic promotion out vs. system non-cashable electronic promotion out.
- 18. Gaming device meter voucher in vs. system voucher in forms accepted.
- 19. System voucher in vs. vouchers counted in the count room, by gaming device.
- 20. Gaming device meter voucher out vs. system voucher out forms issued.
- 21. Gaming device meter coupon promotion in vs. system coupon promotion in forms accepted.
- 22. System coupon promotion in vs. coupons counted in the count room, by gaming device.
- 23. Gaming device meter coupon promotion out vs. system coupon promotion out forms issued.
- 24. Slot machine performance report, as set forth in Technical Standard 3.140(2), that properly includes the wagering activity recorded on the gaming device meters set forth in Technical Standard 3.150(6), if the cashless wagering system is integrated with an on-line slot metering system.
- 25. For each individual adjustment made to a cashless wagering account or a promotional account, a summary of the adjustment to include:
- (a) Patron name and account number, or specific promotion, as applicable;
- (b) Amount of, and explanation for, the adjustment; and
- (c) Identification of the user completing and/or authorizing the adjustment.
- <u>26. All cashiering activities (e.g., log on, redemptions, deposits/withdrawals and adjustments</u> to wagering accounts, log off, etc.), by cashier.
- 27. All exceptions to include:

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- (a) Date and time of exception;
- (b) Gaming device number or user identification number and terminal location where the exception occurred; and
- (c) A description of the exception or a unique code that identifies the exception. (Adopted: 5/03. Effective: 8/22/04.)
- 3.170 Waiver provisions. Upon a showing of good cause, the chairman may waive any of the requirements of Technical Standard 3. (Adopted: 5/03. Effective: 8/22/04.)