

**Title 36 STATE LOTTERY AND
GAMING CONTROL AGENCY**

Subtitle 04 VIDEO LOTTERY TERMINALS

Chapter .01 Video Lottery Technical Standards

Authority: State Government Article, §§ 9-1A-02(b), (c); 9-1A-04(d); 9-1A-15(d); 9-1A-22; 9-1A-24(f), Annotated Code of Maryland

.01 Definitions.

A. In addition to the terms defined in § 9-1A-01 of State Government Article, Annotated Code of Maryland, which have the same meaning in this chapter, in this chapter the following terms have the meanings indicated.

B. Terms Defined.

(1) “Double-up” means an optional wager on a video lottery terminal, the availability of which is triggered by a preceding winning event, in which the player has a mathematically equal probability of doubling the amount wagered or losing the entire amount placed at risk.

(2) “Linked” means to connect with.

(3) “Modification” means a change or alteration that:

(a) Affects the conduct of play or operation of equipment, system or software including a change or alteration to a:

(i) Control program;

(ii) Graphics program; or

(iii) Payout percentage; and

(b) Does not include the replacement of one approved component with an identical component.

(4) “Progressive controller” means a device independent of the operating system of a video lottery terminal that calculates and transmits to a video lottery terminal the amount of an available progressive jackpot based on:

(a) A pre-established rate of progression; and

(b) Denomination of the video lottery terminal.

(5) “Progressive jackpot” means a jackpot offered by a video lottery terminal that may increase uniformly in value based on wagers as the video lottery terminal is played.

(6) “Random number generator” means a computational or physical functionality within the operating system of an electronic device which ensures the observed unpredictability and absence of pattern in a set of elements or events that have definite probabilities of occurrence.

(7) “RAM” means random access memory.

(8) “RAM clear” means a process that results in the zeroing out of any:

(a) Meter information;

(b) Configuration information; or

(c) Data stored in the random access memory of a video lottery terminal.

(9) “Skill” means the application of intelligence and specific knowledge to achieve the best result when a video lottery terminal offers a choice of options during game play.

(10) “Theme” means a concept, subject matter and methodology of design of a video lottery terminal.

(11) “Version” means a sequence number or designation assigned to equipment, a system or software to identify the initial release of the equipment, system or software and to track changes or revisions to the initial release.

(12) “Wide area progressive system” means a system independent of the operating system of a video lottery terminal that calculates and transmits to video lottery terminals linked in two or more facilities in or outside the state the amount of an available progressive jackpot based on:

(a) A pre-established rate of progression; and

(b) Denomination of the video lottery terminal.

.02 Testing, Certification and Approval of Equipment, a System or Software.

A. A manufacturer may not offer the equipment, systems or software enumerated in § E of this regulation, or a modification to a Commission approved version of that equipment, system or software, for sale, lease, distribution or use in a facility without it having been:

1 (1) Tested and certified by an independent certified testing laboratory; and

2

3 (2) Approved in writing by the Commission.

4

5 B. A facility operator may not purchase, lease or otherwise acquire the right to install,
6 utilize or make available for use the equipment, systems or software enumerated in § E(3)
7 of this regulation, or a modification to a Commission approved version of that equipment,
8 system or software, without it having been:

9

10 (1) Tested and certified by an independent certified testing laboratory; and

11

12 (2) Approved in writing by the Commission.

13

14 C. A facility operator may not modify, alter or tamper with the central monitor and
15 control system or a video lottery terminal.

16

17 D. Modification, alteration or tampering with the central monitor and control system or a
18 video lottery terminal may result in the immediate suspension of an operation license by
19 the Commission.

20

21 E. The testing, certification and approval requirements of this regulation shall, at a
22 minimum, apply to:

23

24 (1) The central monitor and control system;

25

26 (2) A video lottery terminal;

27

28 (3) The interoperability between a video lottery terminal and a:

29

30 (a) Video lottery terminal data system;

31

32 (b) Casino management system;

33

34 (c) Gaming ticket system;

35

36 (d) Promotional play system;

37

38 (e) Player tracking system;

39

40 (f) Ticket redemption unit;

41

42 (g) Automated jackpot payout machine;

43

44 (h) External bonusing system;

45

46 (i) Cashless funds transfer system; and

1
2 (j) Progressive controller; and
3

4 (4) Other equipment, systems or software designated for testing and certification
5 by the Commission.
6

7 F. A prototype of equipment, a system or software required to be tested, certified and
8 approved under § E of this regulation, or a modification to a Commission approved
9 version of that equipment, system or software shall, at a minimum, be tested for:
10

11 (1) Overall operational integrity;
12

13 (2) Conformance with State Government Article, § 9-1A, Annotated Code of
14 Maryland and this subtitle;
15

16 (3) The technical standards enumerated in any Request for Proposals, issued by
17 the Commission pertaining to the equipment, system or software, as amended or
18 clarified; and
19

20 (4) If applicable, compatibility and compliance with the central monitor and
21 control system communication protocol designated by the Commission including
22 the ability to communicate with the central monitor and control system on a real
23 time basis for:
24

25 (a) Meter retrieval; and
26

27 (b) Video lottery terminal:
28

29 (i) Status; and
30

31 (ii) Activation and deactivation.
32

33 G. Until such time as the Commission determines it has assembled a list of approved
34 equipment, systems and software sufficient to meet the needs of facility operators under
35 State Government Article, § 9-1A-21(d), Annotated Code of Maryland, notwithstanding
36 the requirements of Regulation .03 and .04 of this chapter, the Commission may permit
37 an abbreviated testing and approval process in accordance with the requirements of
38 Regulation .05 of this chapter.
39

40 H. If a facility operator develops any equipment, system or software that is functionally
41 equivalent to that enumerated in § E(3) of this regulation, or modifies a Commission
42 approved version of that equipment, system or software, the facility operator shall be
43 subject to the testing, certification and approval requirements of this chapter to the same
44 extent as if the equipment, system or software were developed or modified by a
45 manufacturer.
46

1 I. A manufacturer shall pay all costs of testing, certification and approval under this
2 chapter including, but not limited to, all costs associated with:

3
4 (1) Transportation;

5
6 (2) Equipment and technical services required by an independent certified testing
7 laboratory to conduct the testing and certification process; and

8
9 (3) Implementation testing.

10
11 **.03 Submission of Equipment, a System or Software for Testing and Certification.**

12
13 A. A manufacturer seeking Commission approval for equipment, a system or software
14 other than a video lottery terminal shall submit the equipment, system or software to an
15 independent certified testing laboratory.

16
17 B. The submission required by § A of this regulation shall include the following:

18
19 (1) A request for testing and certification under Regulation .02(F) of this chapter;

20
21 (2) A prototype of the equipment, system or software identical in all mechanical,
22 electrical, electronic and other respects to that for which Commission approval is
23 sought;

24
25 (3) Technical and operator manuals;

26
27 (4) A description of all security methodologies incorporated into the design of the
28 equipment, system or software including, if applicable:

29
30 (a) Password protection;

31
32 (b) Encryption methodology for all alterable media;

33
34 (c) Auto-authentication of software;

35
36 (d) Network redundancy; and

37
38 (e) Back-up and recovery procedures;

39
40 (5) A schematic or network diagram of the major components of the equipment,
41 system or software with a:

42
43 (a) Description of each component's functionality; and

44
45 (b) Software object report;

1 (6) A description of the data flow, in narrative and in schematic form, including:
2

3 (a) Data cabling; and
4

5 (b) If applicable, communications methodology for multi-site
6 applications;
7

8 (7) A list of:
9

10 (a) Computer operating systems;
11

12 (b) Third party software; and
13

14 (c) Available system reports;
15

16 (8) System software and hardware installation procedures;
17

18 (9) A description of the method used to authenticate software;
19

20 (10) All source code;
21

22 (11) If applicable, a description of the features offered by the equipment, system
23 or software with regard to:
24

25 (a) Player and employee card functions; and
26

27 (b) Reconciliation procedures;
28

29 (12) If applicable, a description of any interoperability testing conducted by the
30 manufacturer, including test results identified by manufacturer, model and
31 software identification and version number, for the submitted equipment, system
32 or software's connection to any of the following:
33

34 (a) Video lottery terminal;
35

36 (b) Video lottery terminal data system;
37

38 (c) Casino management system;
39

40 (d) Gaming ticket system;
41

42 (e) Promotional play system;
43

44 (f) Player tracking system;
45

46 (g) Ticket redemption unit;

1
2 (h) Automated jackpot payout machine;

3
4 (i) External bonusing system;

5
6 (j) Cashless funds transfer system; and

7
8 (k) Progressive controller;

9
10 (13) If applicable, a description, accompanied by diagrams, schematics and
11 specifications, of the creation of a:

12
13 (a) Gaming ticket and the redemption options available; and

14
15 (b) Promotional play instrument and the redemption options available;
16 and

17
18 (14) If requested by the Commission or an independent certified testing
19 laboratory:

20
21 (a) Any specialized hardware, software or other equipment, inclusive of
22 technical support and maintenance, required to conduct the testing and
23 certification process; and

24
25 (b) Additional documentation pertaining to the equipment, system or
26 software being tested.

27
28 C. A manufacturer seeking Commission approval for a modification to a Commission
29 approved version of equipment, a system or software other than a video lottery terminal
30 shall submit the proposed modification to an independent certified testing laboratory.

31
32 D. An independent certified testing laboratory selected by a manufacturer or the
33 Commission to test a modification may, but need not be, the testing laboratory that
34 performed the initial prototype testing.

35
36 E. The submission required by § C of this regulation shall include the following:

37
38 (1) A request for testing and certification under Regulation .02(F) of this chapter;

39
40 (2) The equipment, system or software proposed for modification;

41
42 (3) A description of the proposed modification, accompanied by applicable
43 diagrams, schematics and specifications;

44
45 (4) A narrative disclosing the purpose for the modification;

1 (5) If requested by the Commission or an independent certified testing laboratory:

2
3 (1) Any specialized hardware, software or other equipment, inclusive of
4 technical support and maintenance, required to conduct the testing and
5 certification process; and

6
7 (2) Additional documentation pertaining to the testing of the proposed
8 modification.
9

10 F. At the conclusion of testing of a prototype or modification of equipment, a system or
11 software other than a video lottery terminal, an independent certified testing laboratory
12 shall issue to the Commission a certification report in an:

13
14 (1) Electronic form; and

15
16 (2) Format acceptable to the Commission.
17

18 G. Upon receipt of a certification report from an independent certified testing laboratory,
19 but prior to a decision to approve a prototype or modification of equipment, a system or
20 software other than a video lottery terminal, the Commission may require a trial period.

21
22 (1) A trial period shall be of a scope and duration the Commission deems
23 appropriate to assess the operation of the prototype or modification in a live
24 gaming environment.

25
26 (2) A trial period shall be subject to compliance by the manufacturer and the
27 facility operator with specific terms and conditions required by the Commission,
28 which may include:

29
30 (a) Development and implementation of product specific accounting and
31 internal controls; and

32
33 (b) Periodic data reporting to the Commission.
34

35 (3) The Commission may authorize the receipt of compensation by a
36 manufacturer during a trial period.
37

38 (4) The Commission may order termination of a trial period at any time upon a
39 determination by the Commission that:

40
41 (a) A manufacturer or facility operator has not complied with the terms
42 and conditions required by the Commission; or

43
44 (b) Equipment, a system or software is not performing as expected.
45

1 H. Upon receipt of a certification report from an independent certified testing laboratory,
2 the Commission may:

- 3
4 (1) Approve the prototype or modification, with or without specific conditions;
5
6 (2) Reject the prototype or modification;
7
8 (3) Require additional testing; or
9
10 (4) Require a trial period under § G of this regulation.
11

12 I. Commission approval of a prototype or modification does not constitute a guarantee of
13 its safety or reliability.
14

15 **.04 Submission of a Video Lottery Terminal for Testing and Certification.**
16

17 A. A manufacturer seeking Commission approval for a video lottery terminal shall
18 submit the video lottery terminal to an independent certified testing laboratory.
19

20 B. The submission required by § A of this regulation shall include the following:
21

- 22 (1) A request for testing and certification under Regulation .02(F) of this chapter;
23
24 (2) A prototype of the video lottery terminal identical in all mechanical,
25 electrical, electronic and other respects to that for which Commission approval is
26 sought;
27
28 (3) Technical and operator manuals;
29
30 (4) A description of the video lottery terminal including:
31
32 (a) Diagrams, schematics and specifications; and
33
34 (b) Documentation with regard to the manner in which the video lottery
35 terminal was tested and emulated by the manufacturer prior to submission;
36
37 (5) A copy, on electronically readable media, of all:
38
39 (a) Executable software, including data and graphics information;
40
41 (b) Source code for programs that have no commercial use other than as a
42 component of a video lottery terminal; and
43
44 (c) Graphical images displayed on a video lottery terminal including, if
45 applicable;
46

- (i) Reel strips or card images;
 - (ii) Rules and instructions; and
 - (iii) Pay tables;
- (6) A mathematical explanation of the average and theoretical return to the player, listing all:
 - (a) Assumptions; and
 - (b) Steps in the formula including the treatment of bonus pays;
- (7) A description of:
 - (a) Security methodologies incorporated into the design of a video lottery terminal including, if applicable:
 - (i) Encryption methodology for all alterable media;
 - (ii) Auto-authentication of software; and
 - (iii) Recovery capability of a video lottery terminal on power interruption;
 - (b) Tower light functions indicating the corresponding condition;
 - (c) Error conditions and the corresponding action required; and
 - (d) Use and function of available:
 - (i) Dip switch settings; and
 - (ii) Configurable options;
- (8) A description, accompanied by supporting test results, of the random number generator or generators used to determine the results of a wager, including a detailed explanation of:
 - (a) Operational methodology; and
 - (b) The manner by which the random number generator including the random number selection process is impervious to:
 - (i) Outside influences;

1 (ii) Interference from electro-magnetic, electrostatic and radio
2 frequencies; and

3
4 (iii) Influence from ancillary equipment by means of data
5 communications;

6
7 (9) If a video lottery terminal requires or permits player skill in the theoretical
8 derivations of the payout return, the source of strategy;

9
10 (10) If required, a cross reference between the meters denoted on the video
11 lottery terminal and the meters required by:

12
13 (a) Regulation .16 of this chapter; and

14
15 (b) The technical standards enumerated in any Request for Proposals
16 issued by the Commission pertaining to a video lottery terminal, as
17 amended or clarified;

18
19 (11) Program storage media including:

20
21 (a) EPROMs;

22
23 (b) EEPROMs; and

24
25 (c) Any type of alterable media for video lottery terminal software;

26
27 (12) Proof that a video lottery terminal has been inspected and approved for
28 customer safety by a reputable testing laboratory;

29
30 (13) If applicable, a description of any interoperability testing conducted by the
31 manufacturer, including test results identified by manufacturer, model and
32 software identification and version number, for the submitted video lottery
33 terminal's connection to any of the following:

34
35 (a) Video lottery terminal data system;

36
37 (b) Casino management system;

38
39 (c) Gaming ticket system;

40
41 (d) Promotional play system;

42
43 (e) Player tracking system;

44
45 (f) Ticket redemption unit;

1 (g) Automated jackpot payout machine;

2
3 (h) External bonusing system;

4
5 (i) Cashless funds transfer system; and

6
7 (j) Progressive controller;

8
9 (14) A description of the manner in which the video lottery terminal was or will
10 be tested for compatibility and compliance with the central monitor and control
11 system communication protocol designated by the Commission including the
12 ability to communicate with the central monitor and control system on a real time
13 basis for:

14
15 (a) Meter retrieval; and

16
17 (b) Video lottery terminal:

18
19 (i) Status; and

20
21 (ii) Activation and deactivation;

22
23 (15) Specialized hardware, software or testing equipment, inclusive of technical
24 support and maintenance, requested by an independent certified testing laboratory
25 including, but not limited to:

26
27 (a) An emulator for a specified microprocessor;

28
29 (b) Personal computers;

30
31 (c) Extender cables for CPU boards;

32
33 (d) Target reel strips; and

34
35 (d) Door defeats; and

36
37 (16) If requested by the Commission or an independent certified testing
38 laboratory, additional documentation pertaining to the video lottery terminal being
39 tested including, but not limited to:

40
41 (a) Hardware block diagrams of the major subsystems;

42
43 (b) A complete set of schematics for all subsystems;

44
45 (c) A wiring harness connection diagram; and

1 (d) Technical specifications for any microprocessor or microcontroller.
2

3 C. A manufacturer seeking Commission approval for a modification to a Commission
4 approved version of a video lottery terminal, including a change in theme, shall submit
5 the modification to an independent certified testing laboratory.
6

7 D. An independent certified testing laboratory selected by a manufacturer or the
8 Commission to test a modification may, but need not be, the testing laboratory that
9 performed the initial prototype testing.
10

11 E. The submission required by § C of this regulation shall include the following:
12

13 (1) A request for testing and certification under Regulation .02(F) of this chapter;
14

15 (2) The video lottery terminal proposed for modification;
16

17 (3) A description of the proposed modification to the video lottery terminal,
18 accompanied by applicable diagrams, schematics and specifications;
19

20 (4) If a change in theme is involved, a copy of the graphical images displayed on
21 the video lottery terminal including, if applicable:
22

23 (a) Reel strips and card images;
24

25 (b) Rules and instructions; and
26

27 (c) Pay tables;
28

29 (5) If a change in the manner in which the average payout percentage is achieved,
30 or a change in the theoretical return to the player is otherwise involved, a
31 mathematical explanation of the return to the player, listing all:
32

33 (a) Assumptions; and
34

35 (b) Steps in the formula including the treatment of bonus pays;
36

37 (6) If the proposed modification requires or permits player skill in the theoretical
38 derivations of the payout return, the source of strategy;
39

40 (7) A description of the manner in which the video lottery terminal was or will be
41 tested for compatibility and compliance with the central monitor and control
42 system communication protocol designated by the Commission including the
43 ability to communicate with the central monitor and control system on a real time
44 basis for:
45

46 (a) Meter retrieval; and

(b) Video lottery terminal:

(i) Status; and

(ii) Activation and deactivation; and

(8) If requested by the Commission or an independent certified testing laboratory:

(1) Any specialized hardware, software or other equipment, inclusive of technical support and maintenance, required to conduct the testing and certification process; and

(2) Additional documentation pertaining to the testing of the proposed modification.

F. At the conclusion of testing of a prototype or modification to a video lottery terminal, an independent certified testing laboratory shall issue to the Commission a certification report in an:

(1) Electronic form; and

(2) Format acceptable to the Commission.

G. Upon receipt of a certification report from an independent certified testing laboratory, but prior to a decision to approve a prototype or modification to a video lottery terminal, the Commission may require a trial period.

(1) A trial period shall be of a scope and duration the Commission deems appropriate to assess the operation of the video lottery terminal in a live gaming environment.

(2) A trial period shall be subject to compliance by the manufacturer and the facility operator with specific terms and conditions required by the Commission, which may include:

(a) Development and implementation of product specific accounting and internal controls; and

(b) Periodic data reporting to the Commission.

(3) The Commission may authorize the receipt of compensation by a manufacturer during a trial period.

(4) The Commission may order termination of the trial period at any time upon a determination by the Commission that:

(a) A manufacturer or facility operator has not complied with the terms and conditions required by the Commission; or

(b) The video lottery terminal is not performing as expected.

H. Upon receipt of a certification report from an independent certified testing laboratory, the Commission may:

(1) Approve the prototype or modification, with or without specific conditions;

(2) Reject the prototype or modification;

(3) Require additional testing; or

(4) Require a trial period under § G of this regulation.

I. Commission approval of a prototype or modification of a video lottery terminal does not constitute a guarantee of its safety or reliability.

.05 Abbreviated Testing and Certification.

A. Except with regard to the Commission's central monitor and control system, a manufacturer may, during the period specified in Regulation .02(G) of this chapter, seek Commission approval of a prototype or proposed modification under an abbreviated testing and certification process for any equipment, system or software required to be tested and certified under Regulation .02(E) of this chapter.

B. A manufacturer shall submit the equipment, system or software to an independent certified testing laboratory.

C. The submission required by § B of this regulation shall include the following:

(1) A request for abbreviated testing and certification under this regulation naming the state within the United States on whose regulations and technical standards the manufacturer proposes the Commission rely;

(2) A prototype of the equipment, system or software identical in all mechanical, electrical, electronic and other respects to that for which Commission approval is sought;

(3) A certification signed by the chief engineer of the manufacturer, or the engineer in charge of the division of the manufacturer responsible for producing the equipment or system submitted, representing that:

1 (a) The prototype or proposed modification is identical in all mechanical,
2 electrical, electronic and other respects to one which has been tested and
3 certified by:

4
5 (i) A testing laboratory operated by the named state; or

6
7 (ii) An independent certified testing laboratory on behalf of the
8 named state;

9
10 (b) The manufacturer is licensed in good standing in the named state;

11
12 (c) The submitted equipment, system or software has all regulatory
13 approvals prerequisite to sale, lease or distribution in the named state;

14
15 (d) The testing standards of the named state are comprehensive, thorough
16 and involve substantially similar technical requirements and safeguards as
17 those required by:

18
19 (i) State Government Article, § 9-1A, Annotated Code of
20 Maryland and this subtitle; and

21
22 (ii) The technical standards enumerated in any Request for
23 Proposals issued by the Commission pertaining to the equipment,
24 system or software, as amended or clarified; and

25
26 (e) The manufacturer has fully disclosed any conditions or limitations
27 placed by the named state on the operation or placement of the equipment,
28 system or software:

29
30 (i) At the time of approval; or

31
32 (ii) Subsequent to approval;

33
34 (4) Copies of the submission package, and any amendments thereto, filed in the
35 named state including any:

36
37 (a) Checklists;

38
39 (b) Correspondence, review letters or certification letters issued by:

40
41 (i) The testing laboratory operated by the named state; or

42
43 (ii) An independent certified testing laboratory on behalf of the
44 named state; and

45
46 (c) Final approval letter issued by the named state;

1
2 (5) If applicable, a description of any interoperability testing conducted by the
3 manufacturer, including test results identified by manufacturer, model and
4 software identification and version number, for the submitted equipment or
5 system's connection to a:
6

- 7 (a) Video lottery terminal;
8
9 (b) Video lottery terminal data system;
10
11 (c) Casino management system;
12
13 (d) Gaming ticket system;
14
15 (e) Promotional play system;
16
17 (f) Player tracking system;
18
19 (g) Ticket redemption unit;
20
21 (h) Automated jackpot payout machine;
22
23 (i) External bonusing system;
24
25 (j) Cashless funds transfer system; and
26
27 (k) Progressive controller;
28

29 (6) If the submission involves a video lottery terminal, a description of the
30 manner in which the video lottery terminal was or will be tested for compatibility
31 and compliance with the central monitor and control system communication
32 protocol designated by the Commission including the ability to communicate with
33 the central monitor and control system on a real time basis for:
34

- 35 (a) Meter retrieval; and
36
37 (b) Video lottery terminal:
38
39 (i) Status; and
40
41 (ii) Activation and deactivation; and
42

43 (7) If requested by the Commission or an independent certified testing laboratory:
44

1 (a) Any specialized hardware, software or other equipment, inclusive of
2 technical support and maintenance, required to conduct the testing and
3 certification process; and
4

5 (b) Additional documentation pertaining to the equipment, system or
6 software being tested.
7

8 D. At the conclusion of testing of a prototype or modification, an independent certified
9 testing laboratory conducting abbreviated testing and certification shall issue to the
10 Commission a certification report in an:

11
12 (1) Electronic form; and

13
14 (2) Format acceptable to the Commission.
15

16 E. The certification report issued under § D of this regulation shall state:

17
18 (1) Whether the independent certified testing laboratory concurs with the
19 manufacturer that the testing standards of the named state are comprehensive,
20 thorough and involve substantially similar technical requirements and safeguards
21 as those required by:
22

23 (a) State Government Article, § 9-1A, Annotated Code of Maryland and
24 this subtitle; and

25
26 (b) The technical standards enumerated in any Request for Proposals
27 issued by the Commission pertaining to the equipment, system or
28 software, as amended or clarified;
29

30 (2) Whether the documentation required by § C(3) of this regulation is complete;

31
32 (3) With respect to any deficiency noted relating to § E(1) or (2) of this
33 regulation, the nature of the non-compliance; and
34

35 (4) The results of any supplemental testing performed, including interoperability
36 testing with the central monitor and control system.
37

38 F. Upon receipt of a certification report from an independent certified testing laboratory,
39 the Commission may act with regard to:

40
41 (1) Acceptance of the testing standards of the named state; and

42
43 (2) The specific equipment, system or software by:
44

45 (a) Approving the prototype or modification, with or without specific
46 conditions;

- (b) Rejecting the prototype or modification;
- (c) Requiring additional testing; or
- (d) Requiring a trial period under this chapter.

G. Commission approval of a prototype or proposed modification does not constitute a guarantee of its safety or reliability.

.06 Concatenated Binary Files and Related Documentation.

A. A manufacturer shall deliver each video lottery terminal to the Commission with:

(1) The concatenated binary file signature corresponding to the Commission approved version of the video lottery terminal in a form satisfactory to the:

- (a) Commission; and
- (b) Central monitor and control system operator; and

(2) A file, in a form satisfactory to the Commission, describing the video lottery terminal including:

(a) Manufacturer's:

- (i) Serial number;
- (ii) Model number;
- (iii) Software identification number; and
- (iv) Version number;

(b) Denomination or a designation as multi-denomination;

(c) Cabinet style;

(d) An indication as to whether the video lottery terminal is a:

- (i) Progressive; or
- (ii) Wide area progressive;

(e) Configured for use with a:

(i) Gaming ticket system;

(ii) External bonusing system; and

(iii) Cashless funds transfer system; and

(f) Other information required by the Commission.

.07 Emergency Modification of Equipment, a System or Software.

A. Notwithstanding the requirements of Regulations .03(C) and .04(C) of this chapter, the Commission may, on submission of a written request by a manufacturer, authorize installation of a modification to equipment, a system or software required to be tested, certified and approved by the Commission under Regulation .02(E) of this chapter, on an emergency basis.

B. A written request submitted by a manufacturer to the Commission shall document the:

(1) Equipment, system or software proposed for emergency modification including:

(a) Software identification number; and

(b) Version number;

(2) Facility;

(3) Reason for the emergency modification; and

(4) Proposed date and time of installation.

C. A manufacturer may not install an emergency modification without the written approval of the Commission.

D. No more than 15 days following receipt of Commission authorization on an emergency modification, a manufacturer shall submit a modification identical to that receiving emergency authorization for testing, certification and approval under this chapter.

.08 Notice of Known or Suspected Defect.

A. A manufacturer shall immediately notify the Commission of any known or suspected defect or malfunction in equipment, system or software required to be tested, certified and approved by the Commission under Regulation .02(E) of this chapter.

B. A manufacturer shall:

1
2 (a) Confirm in writing any notice given to the Commission verbally pursuant to §
3 A of this regulation; and

4
5 (b) If required by the Commission, notify a facility operator of any known or
6 suspected defect or malfunction in equipment, a system or software installed in its
7 facility.

8
9 C. A facility operator shall immediately notify the Commission of any known or
10 suspected defect or malfunction in equipment, system or software required to be tested,
11 certified and approved by the Commission under Regulation .02(E) of this regulation.

12
13 D. A facility operator shall confirm in writing any notice given to the Commission
14 verbally pursuant to § C of this regulation.

15
16 **.09 Revocation.**

17
18 A. The Commission may, at any time, revoke an approval granted to equipment, a
19 system or software under Regulations .03, .04 or .05 of this chapter on a determination by
20 the Commission that the equipment, system or software does not comply with:

21
22 (1) State Government Article, § 9-1A, Annotated Code of Maryland and this
23 subtitle;

24
25 (2) The technical standards enumerated in any Request for Proposals issued by
26 the Commission pertaining to the equipment, system or software, as amended or
27 clarified; and

28
29 (3) The central monitor and control system communication protocol designated
30 by the Commission including the ability to communicate with the central monitor
31 and control system on a real time basis for:

32
33 (a) Meter retrieval; and

34
35 (b) Video lottery terminal:

36
37 (i) Status; and

38
39 (ii) Activation and deactivation.

40
41 B. The Commission may, at any time, impose additional conditions on the operation or
42 placement of Commission approved equipment, systems or software.

43
44 C. A revocation by the Commission of an approval under § A of this regulation does not
45 give rise to an appeal right.

1 **.10 Communication Requirements.**

2
3 A. A manufacturer shall enable a video lottery terminal to communicate with the
4 Commission's central monitor and control system through any gaming industry
5 communication protocols designated by the Commission.
6

7 B. Unless the Commission notifies a manufacturer in writing to the contrary, SAS v.6.02
8 shall be the designated communication protocol.
9

10 **.11 Average Payout Percentage.**

11
12 A. For the purposes of this regulation:

13
14 (1) "Game cycle" means the finite set of all possible combinations of symbols on
15 a video lottery terminal, including spinning reels or card images or other forms of
16 video display or both;
17

18 (2) "Theoretical payout percentage" means the total value of jackpots expected to
19 be paid by a video lottery terminal divided by the total value of video lottery
20 terminal wagers expected to be made on that video lottery terminal during the
21 game cycle; and
22

23 (3) "Wager level" means all credit combinations available on a video lottery
24 terminal from the minimum bet to the maximum bet.
25

26 B. A video lottery terminal shall have an average payout percentage which:
27

28 (1) Is 87% or more; and
29

30 (2) Does not exceed 100%.
31

32 C. Notwithstanding the requirements of § B of this regulation, in no event may a video
33 lottery terminal have a theoretical payout percentage of less than 87%.
34

35 D. A facility may not make available for play a video lottery terminal with an average
36 payout percentage which exceeds 95% without the written approval of the Commission.
37

38 E. A facility's gaming floor shall be configured to collectively achieve, at all times, an
39 average payout percentage which:
40

41 (1) Exceeds 90%; and
42

43 (2) Does not exceed 95%.
44

1 F. The Commission and the facility operator shall, in selecting video lottery terminals
2 and configuring a facility's gaming floor, rely on the video lottery terminal's theoretical
3 payout percentage.

4
5 G. Once a facility is operational, the Commission shall:

6
7 (1) Conduct periodic reviews to ensure that average payout percentages, on an
8 average annual basis, comply with the requirements of this regulation; and

9
10 (2) If necessary, require the modification or replacement of a video lottery
11 terminal to ensure compliance with the average payout percentage requirements
12 of this regulation.

13
14 H. A payout percentage that may be affected by reason of skill shall meet the payout
15 percentage requirements of this regulation factoring in a method of play that provides the
16 greatest return to a player.

17
18 I. A video lottery terminal:

19
20 (1) May not:

21
22 (a) Offer a winning combination where the odds exceed 50 million to one;
23 and

24
25 (b) Alter any function based on an internal computation of payout
26 percentage; and

27
28 (2) Shall be designed to ensure that all possible combinations in the game cycle
29 are independent of each other.

30
31 **.12 Maximum Bet.**

32
33 A. A video lottery terminal may not accept a maximum bet on a single game event in
34 excess of \$500 without the written approval of the Commission.

35
36 B. The \$500 maximum bet in § A of this regulation does not apply to a double-up option
37 on a winning wager.

38
39 **.13 Video Lottery Terminal Lock-up.**

40
41 A. A video lottery terminal shall be configured to lock-up and preclude further play
42 following a single jackpot that requires the filing of IRS Form W-2G, Certain Gambling
43 Winnings.

44
45 B. A single jackpot event shall include the exhaustion of all available double-up and
46 bonus wager options on a winning wager.

C. A video lottery terminal may be configured to permit the transfer, upon lock-up, of a jackpot amount to the credit meter.

.14 Random Number Generator.

A. For purposes of this regulation,

(1) “Chi-squared analysis” means a statistical test for goodness of fit which measures the difference between a theoretical result and an observed result;

(2) “Runs test” means a statistical test that determines the existence of recurring patterns within a set of data;

(3) “Correlation test” means a statistical test that determines whether each card, number, symbol or stop position is independently chosen without regard to another card, number, symbol or stop within that game play; and

(4) “Series correlation test” means a statistical test that determines whether each card, number, symbol or stop position is independently chosen without regard to another card, number, symbol or stop in the previous game.

B. A video lottery terminal shall determine the occurrence of a specific card, number, symbol or stop by utilizing:

(1) One random number generator; or

(2) Two or more random number generators working collectively.

C. A video lottery terminal’s selection process shall be considered random if it meets the following statistical requirements:

(1) A chi-squared analysis meeting a 99% confidence level;

(2) A runs test meeting a 99% confidence level;

(3) A correlation test meeting a 99% confidence level;

(4) A series correlation test meeting a 99% confidence level; and

(5) Any other test of randomness determined appropriate by the Commission.

D. A random number generator including its random number selection process shall be designed in a manner that ensures it is impervious to:

(i) Outside influences;

(ii) Interference from electro-magnetic, electrostatic and radio frequencies; and

(iii) Influence from ancillary equipment by means of data communication.

E. Once a random selection process has occurred, a video lottery terminal:

(1) Shall display an accurate representation of the randomly selected outcome; and

(2) May not make a secondary decision which affects the result shown to the player at the video lottery terminal.

.15 Rules of Play.

A. For the purposes of this regulation, “strategy choice” means a particular play option on a video lottery terminal that requires the use of skill to consistently achieve the best result.

B. A video lottery terminal shall be equipped to display to a player while idle the:

(1) Schedule of credits awarded with each winning combination;

(2) Applicable rules of play; and

(3) Any maximum bet limit imposed under Regulation .12 of this chapter.

C. The Commission may prohibit the display of any rules of play it determines to be:

(1) Incomplete;

(2) Confusing;

(3) Misleading; or

(4) Inconsistent with the rules of play required by the Commission.

D. For rules of play, the schedule of credits awarded with each winning combination may not include possible aggregate awards achievable from free plays.

E. A video lottery terminal that includes a strategy choice shall include in its rules of play mathematically sufficient information for a player to use optimal skill unless the player:

1 (1) Is not required to make an additional wager; and

2
3 (2) Cannot lose any credits earned prior to the strategy choice.

4
5 F. A manufacturer or facility operator may not attach a sticker or other removable device
6 that concerns rules of play to the face, glass or screen of a video lottery terminal without
7 the prior written approval of the Commission.

8
9 **.16 Video Lottery Terminal Meters.**

10
11 A. A video lottery terminal shall be equipped with:

12
13 (1) The meter functions enumerated in § C, D and F of this regulation;

14
15 (2) Meters which:

16
17 (a) Continuously and automatically increment in credits equal to:

18
19 (i) The denomination of the video lottery terminal; or

20
21 (ii) Cents; and

22
23 (b) Are accessible and legible without access to the interior of the video
24 lottery terminal; and

25
26 (3) A device, mechanism or method for retaining electronically accounting data
27 for all meters required under this regulation for a period of not less than 10 days
28 subsequent to a power loss.

29
30 B. A video lottery terminal may not be equipped with any device, mechanism or method
31 which allows or causes the electronic accounting meters required under this regulation to
32 automatically clear or zero out.

33
34 C. A video lottery terminal shall be equipped with the following cumulative meters, all
35 of which shall be at least ten digits in length:

36
37 (1) A coin-in meter that:

38
39 (a) Accumulates the total number of credits wagered whether the wager
40 involves:

41
42 (i) Currency;

43
44 (ii) A gaming ticket;

45
46 (iii) A promotional play instrument;

1
2 (iv) Downloaded credits; or

3
4 (v) Credits won; and

5
6 (b) Does not accumulate subsequent double-up wagers or other wagers of
7 intermediate winnings accumulated during a game event.

8
9 (2) A series of meters which collectively account for the number of credits won:

10
11 (a) A coin-out meter that accumulates the total number of credits paid out
12 automatically by the video lottery terminal as a result of winning wagers
13 including a payout:

14
15 (i) By gaming ticket; and

16
17 (ii) Directly to a credit meter;

18
19 (b) A progressive payout meter that accumulates the total number of
20 credits paid out automatically by the video lottery terminal as a result of a
21 progressive jackpot;

22
23 (c) An external bonus payout meter that accumulates the total number of
24 credits paid out automatically by the video lottery terminal as a result of
25 an external bonusing system award;

26
27 (d) An attendant paid jackpot meter that accumulates the total number of
28 credits hand paid by a facility operator as the result of a single winning
29 combination that exceeds the physical or configured capability of the
30 video lottery terminal;

31
32 (e) An attendant paid cancelled credit meter that accumulates the total
33 number of credits hand paid by a facility operator as the result of a player
34 initiated cash-out that exceeds the physical or configured capability of the
35 video lottery terminal;

36
37 (f) An attendant paid progressive jackpot meter that accumulates the total
38 number of credits hand paid by a facility operator as a result of a
39 progressive jackpot that exceeds the physical or configured capability of
40 the video lottery terminal; and

41
42 (g) An attendant paid external bonus payout meter that accumulates the
43 total number of credits hand paid by a facility operator as a result of an
44 external bonusing system award that exceeds the physical or configured
45 capability of the video lottery terminal;

- (3) A cashable gaming ticket in – count meter that accumulates the number of cashable gaming tickets accepted by a video lottery terminal;
- (4) A cashable gaming ticket in – value meter that accumulates the total number of cashable credits on gaming tickets accepted by a video lottery terminal;
- (5) A cashable gaming ticket out – count meter that accumulates the number of cashable gaming tickets issued by a video lottery terminal;
- (6) A cashable gaming ticket out – value meter that accumulates the total number of cashable credits on gaming tickets issued by a video lottery terminal;
- (7) A noncashable gaming ticket in – count meter that accumulates the number of noncashable gaming tickets accepted by a video lottery terminal;
- (8) A noncashable gaming ticket in – value meter that accumulates the total number of noncashable credits on gaming tickets accepted by a video lottery terminal;
- (9) A noncashable gaming ticket out – count meter that accumulates the number of noncashable gaming tickets issued by a video lottery terminal;
- (10) A noncashable gaming ticket out – value meter that accumulates the total number of noncashable credits on gaming tickets issued by a video lottery terminal;
- (11) A cashable promotional play instrument in – count meter that accumulates the number of cashable promotional play instruments accepted by a video lottery terminal;
- (12) A cashable promotional play instrument in – value meter that accumulates the total number of cashable credits on promotional play instruments accepted by a video lottery terminal;
- (13) A noncashable promotional play instrument in – count meter that accumulates the number of noncashable promotional play instruments accepted by a video lottery terminal;
- (14) A noncashable promotional play instrument in – value meter that accumulates the total number of noncashable credits on promotional play instruments accepted by a video lottery terminal;
- (15) A cashable downloadable in – count meter that accumulates the total number of electronic transfers involving cashable credits accepted by a video lottery terminal through a cashless funds transfer system.

1 (16) A cashable downloadable in – value meter that accumulates the total number
2 of cashable credits accepted by a video lottery terminal through a cashless funds
3 transfer system.

4
5 (17) A cashable downloadable out – count meter that accumulates the total
6 number of electronic transfers involving cashable credits issued by a video lottery
7 terminal to player accounts through a cashless funds transfer system.

8
9 (18) A cashable downloadable out – value meter that accumulates the total
10 number of cashable credits issued by a video lottery terminal to player accounts
11 through a cashless funds transfer system.

12
13 (19) A noncashable downloadable in – count meter that accumulates the total
14 number of electronic transfers involving noncashable credits accepted by a video
15 lottery terminal through a cashless funds transfer system.

16
17 (20) A noncashable downloadable in – value meter that accumulates the total
18 number of noncashable credits accepted by a video lottery terminal through a
19 cashless funds transfer system.

20
21 (21) A noncashable downloadable out – count meter that accumulates the total
22 number of electronic transfers involving noncashable credits issued by a video
23 lottery terminal to player accounts through a cashless funds transfer system.

24
25 (22) A noncashable downloadable out – value meter that accumulates the total
26 number of noncashable credits issued by a video lottery terminal to player
27 accounts through a cashless funds transfer system.

28
29 (23) A bill – in count meter than accumulates the total number of bills accepted
30 by a video lottery terminal;

31
32 (24) A bill – in value meter than accumulates the total dollar amount of currency
33 accepted by a video lottery terminal;

34
35 (25) Denomination – in count meters that accumulate, by denomination, the total
36 number of bills accepted by a video lottery terminal;

37
38 (26) Denomination – in value meters that accumulate, by denomination, the total
39 dollar amount of currency accepted by a video lottery terminal; and

40
41 (27) Other meters required by the Commission.

42
43 D. A video lottery terminal shall be equipped with the following non-cumulative meters:

44
45 (1) A credit meter which advises a player of the total number of credits, cashable
46 and noncashable, available for wagering on the video lottery terminal;

1
2 (2) A credits wagered meter that advises a player of the total number of credits
3 wagered in a particular game or round of video lottery terminal play;

4
5 (3) A win meter that advises a player of the total number of credits won in the
6 immediately concluded game or round of video lottery terminal play; and
7

8 (4) A credits paid meter which advises a player of the total value of the last:
9

10 (a) Cash out initiated by a player;

11 (b) Hand paid jackpot; and
12

13 (c) Hand paid cancelled credit.
14
15

16 E. The non-cumulative meters required by §D of this regulation shall be:
17

18 (1) Visible from the exterior of the video lottery terminal; and
19

20 (2) At least eight digits in length.
21

22 F. A video lottery terminal shall be equipped with a meter at least eight digits in length
23 which stores, in a manner and for a duration acceptable to the Commission, the number
24 of games played after the following events:
25

26 (a) Power reset;
27

28 (b) Door close; and
29

30 (c) RAM clear.
31

32 G. The Commission may approve a video lottery terminal which combines one of more
33 of the meters enumerated in § C of this regulation if the Commission determines that the
34 combined meters do not preclude the capture of all critical transactions occurring on a
35 video lottery terminal.
36

37 H. If a video lottery terminal has been enabled for tournament play, the results of
38 tournament play shall not increment the cumulative meters required under § C of this
39 regulation.
40

41 **.17 RAM Clear.**
42

43 A. A manufacturer may not perform a RAM clear on a video lottery terminal without:
44

45 (1) Prior notice to the central monitor and control system operator; and
46

(2) Recordation and transmission to the central monitor and control system operator of accounting meter data immediately prior to the RAM clear.

.18 Video Lottery Terminal Tower Lights and Error Conditions.

A. For purposes of this regulation:

(1) “Administrative mode” means a video lottery terminal has been deliberately placed by a manufacturer in an unplayable state to access the set up or recall functions of the video lottery terminal;

(2) “Disabled mode” means a video lottery terminal has been deliberately placed, by a manufacturer or the central monitor and control system, in an unplayable state for any reason other than access to the set up or recall functions of the video lottery terminal; and

(3) “Tilt mode” means a video lottery terminal has placed itself in an unplayable state due to malfunction or error condition and may not be returned to a playable state without the intervention of a manufacturer.

B. A video lottery terminal shall be equipped with a tower light located at the top of its cabinet used to identify the operational status of the video lottery terminal including, but not limited to:

(1) A jackpot payout;

(2) A credit meter payout that exceeds the physical or configured capability of the video lottery terminal to pay;

(3) Main door open;

(4) Player requesting attendant services;

(5) Administrative mode;

(6) Disabled mode; and

(7) Tilt mode.

C. A tower light shall be visible to:

(1) A player; and

(2) The facility operator’s surveillance department.

1 D. The top or left light of a tower light when viewed from the front of the machine shall
2 be white; and
3

4 E. The bottom or right light of a tower light when viewed from the front of a machine
5 shall indicate the default denomination of the video lottery terminal as follows:
6

- 7 (1) Red means a video lottery terminal with a denomination of \$.10 or less;
8
- 9 (2) Yellow means a video lottery terminal with a denomination of \$.25;
10
- 11 (3) Orange means a video lottery terminal with a denomination of \$.50.
12
- 13 (4) Blue means a video lottery terminal with a denomination of \$1.
14
- 15 (5) Pink means a video lottery terminal with a denomination of \$2; and
16
- 17 (6) Purple means a video lottery terminal with a denomination of \$5 or more.
18

19 F. The Commission may, on submission of a written request by a manufacturer, approve
20 an alternative means for identifying the operation status enumerated in A of this
21 regulation.
22

23 G. A manufacturer shall deliver a video lottery terminal with documentation that
24 identifies each light or light combination on its tower light and the operational status
25 corresponding to that light or light combination.
26

27 H. Nothing in this regulation shall preclude a manufacturer from equipping a video
28 lottery terminal with a light or light combinations not required by this regulation for use
29 by a facility operator for gaming floor communication provided the manufacturer notifies
30 the Commission in writing of any internal communication protocols involving tower
31 lights developed by a manufacturer for a facility prior to implementation.
32

33 I. A video lottery terminal shall be equipped, while idle and in play mode, to do the
34 following with regard to an error condition identified in § J, K, L or M of this regulation:
35

- 36 (1) Detect the error condition;
37
- 38 (2) Identify the specific error condition by:
39
 - 40 (a) Tower light; or
41
 - 42 (b) Other Commission approved means; and
43
- 44 (3) Communicate the specific error condition to the:
45
 - 46 (a) Central monitor and control system; and

1
2 (b) Facility operator's video lottery terminal data system.
3

4 J. The following error conditions may be cleared automatically by the video lottery
5 terminal upon completion of a new play sequence:
6

- 7 (1) Power reset;
8
9 (2) Door open; and
10
11 (3) Door just closed.
12

13 K. The following error conditions shall result in placement of the video lottery terminal
14 in disabled mode, shall prevent play and shall only be cleared by a manufacturer:
15

- 16 (1) Low RAM battery;
17
18 (2) Printer failure;
19
20 (3) Presentation error;
21
22 (4) Program error or defective program storage media;
23
24 (5) Reel spin error;
25
26 (6) Removal of the control storage media; and
27
28 (7) RAM defective or corrupted.
29

30 L. The following error conditions shall result in placement of the video lottery terminal
31 in disabled mode, shall prevent play and shall be cleared by a manufacturer or facility
32 operator:
33

- 34 (1) Printer mechanism paper jam; and
35
36 (2) Bill validator jam.
37

38 M. The following error conditions need not result in placement of the video lottery
39 terminal in disabled mode, shall not preclude play if the error condition is determined not
40 to prohibit completion of the transaction and shall be cleared by a manufacturer or facility
41 operator:
42

- 43 (1) Printer mechanism paper level is low; and
44
45 (2) Printer mechanism is out of paper.
46

1 N. A manufacturer of a video lottery terminal shall affix a description of the error code
2 corresponding to each error condition inside a video lottery terminal.

3
4 **.19 Last Game Recall.**

5
6 A. A video lottery terminal shall be capable of recalling and displaying a complete play
7 history for the most recent game event and at least three games immediately preceding
8 the most recent game event.

9
10 B. The play history required by § A of this regulation shall:

11
12 (1) Be presented in the same sequence as the original game play;

13
14 (2) Be available when the video lottery terminal is in:

15
16 (a) Idle mode;

17
18 (b) Administrative mode;

19
20 (c) Disabled mode; and

21
22 (d) Tilt mode; and

23
24 (3) Include:

25
26 (a) Game outcome in graphics or text;

27
28 (b) The base game and all intermediate play decisions;

29
30 (c) Details sufficient to determine the credits available at the start and end
31 of each game event;

32
33 (d) Wagers placed per line;

34
35 (e) Number of lines on which wagers were placed;

36
37 (f) Credits won;

38
39 (g) Credits cashed out;

40
41 (h) Any progressive jackpot awarded; and

42
43 (i) All double-up, bonus and extended play activity.

44
45 C. Notwithstanding the requirements of § B(3) of this regulation, a video lottery terminal
46 offering a variable number of intermediate play steps in a game event shall satisfy the

1 requirements of this regulation if it is capable of recalling and displaying the last 50
2 intermediate steps in each of the four base game events retained.

3
4 D. A video lottery terminal shall be capable of recalling and displaying a complete
5 transaction history for the last 35 transactions with an electronic funds transfer system.

6
7 **.20 Video Lottery Terminal Entry Logs.**

8
9 A. A manufacturer shall equip a video lottery terminal with a maintenance log for use in
10 documenting each time a:

11
12 (1) Video lottery terminal is entered; or

13
14 (2) A device connected to a video lottery terminal which may affect the operation
15 of the video lottery terminal is accessed.

16
17 B. A maintenance log shall be:

18
19 (1) Signed by each individual accessing an area enumerated in § A of this
20 regulation including representatives of a manufacturer, contractor, facility
21 operator or the Commission;

22
23 (2) Maintained in a book with bound numbered pages that cannot be readily
24 removed:

25
26 (a) In the main cabinet of the video lottery terminal; and

27
28 (b) On the cover of which are fields to record:

29
30 (i) The video lottery terminal's manufacturer's serial number;

31
32 (ii) Commission asset number; and

33
34 (iii) A log book sequence number;

35
36 (3) Utilized to document the following:

37
38 (a) Date and time of entry;

39
40 (b) Entering individual's signature;

41
42 (c) Reason for entering the video lottery terminal including the
43 identification of areas inspected or repaired; and
44

1 (4) Retained by a facility operator for a minimum of three years from the date of
2 the last entry unless a request for destruction is submitted in writing and approved
3 in writing by the Commission.
4

5 C. A manufacturer shall equip a progressive controller not housed within the cabinet of a
6 video lottery terminal with a maintenance log which documents each time the
7 Commission approved compartment in which the progressive controller resides is
8 accessed which is:
9

10 (1) Signed by each individual accessing the compartment housing the progressive
11 controller including representatives of a manufacturer, contractor, facility operator
12 or the Commission;
13

14 (2) Maintained in a book with bound numbered pages that cannot be readily
15 removed:
16

17 (a) In the Commission approved compartment in which the progressive
18 controller resides; and
19

20 (b) On the cover of which are fields to record:
21

22 (i) The progressive controller's manufacturer's serial number;
23

24 (ii) Commission asset number; and
25

26 (iii) A log book sequence number;
27

28 (3) Utilized to document the following:
29

30 (a) Date and time of entry to the compartment housing the progressive
31 controller;
32

33 (b) Entering individual's signature;
34

35 (c) Reason for entering the compartment housing the progressive
36 controller including the identification of areas inspected or repaired; and
37

38 (4) Retained by a facility operator for a minimum of three years from the date of
39 the last entry unless a request for destruction is submitted in writing and approved
40 in writing by the Commission.
41

42 **.21 Video Lottery Terminal Security.** 43

44 A. Access to the main door securing the interior of a video lottery terminal shall be
45 controlled by at least one lock:
46

1 (1) The key to which is:

2
3 (a) Different from any other key securing access to a video lottery
4 terminal component including a:

5
6 (i) Belly door;

7
8 (ii) Bill validator; or

9
10 (iii) Cash storage box; and

11
12 (b) Limited to access by a:

13
14 (i) Manufacturer; and

15
16 (ii) Facility operator; and

17
18 (2) Provided and installed by a facility operator except a facility operator may
19 supply a manufacturer with a lock for installation during the manufacturing
20 process.

21
22 B. Access to the logic door securing the video lottery terminal's main processing unit
23 shall be controlled by at least one lock:

24
25 (1) The key to which is:

26
27 (a) Different from any other key securing access to a video lottery
28 terminal component including a:

29
30 (i) Belly door;

31
32 (ii) Bill validator; or

33
34 (iii) Cash storage box; and

35
36 (b) Limited to access by the Commission; and

37
38 (2) Provided and installed by a manufacturer in accordance with Commission
39 directives.

40
41 C. Locks to a bill validator and a cash storage box shall be:

42
43 (1) Accessed and controlled in accordance with COMAR 36.04.04.43; and

1 (2) Provided and installed by a facility operator except a facility operator may
2 supply a manufacturer with a lock for installation during the manufacturing
3 process.
4

5 D. A video lottery terminal shall be designed with access to hardware switches
6 controlling functions critical to the operation of a video lottery terminal limited to access
7 by a manufacturer and the Commission including, but not limited to, switches, jumpers
8 and other mechanisms utilized to alter:
9

10 (1) Pay tables;

11 (2) Payout percentages; and

12 (3) Meters.
13

14 E. A video lottery terminal shall have:
15

16 (1) Printed or affixed to the top and front of the video lottery terminal, in a size
17 suitable for effective surveillance coverage, the facility operator's gaming floor
18 location number; and
19

20 (2) An identification plate on its exterior displaying the:
21

22 (a) Manufacturer;

23 (b) Manufacturer's:
24

25 (i) Serial number; and

26 (ii) Model number; and
27

28 (c) Commission asset number.
29

30 **.22 Minimum Design Standards Applicable to Equipment, a System or Software.** 31

32 A. Equipment, a system or software required to be tested, certified and approved under
33 this chapter shall:
34

35 (1) Conform to the minimum design standards of this regulation; and
36

37 (2) If applicable, conform to any specific additional design standards enumerated
38 in this chapter.
39

40 B. Equipment, a system or software required to be tested, certified and approved under
41 this chapter shall, at a minimum, control logical access through:
42

43
44
45
46

1 (1) Generation of daily monitoring logs documenting:
2

3 (a) User access; and
4

5 (b) Security incidents;
6

7 (2) Assignment of rights and privileges to an individual user including specific
8 protocols addressing:
9

10 (a) Creation, modification and termination of a unique system account for
11 each user;
12

13 (b) Password parameters which:
14

15 (i) Require a minimum length;
16

17 (ii) Incorporate an expiration interval; and
18

19 (iii) Result in lockout; and
20

21 (c) Administrator and override capabilities;
22

23 (3) Use of access permissions to restrict an unauthorized user from performing
24 any the following with regard to critical files and directories:
25

26 (a) Reading;
27

28 (b) Altering; or
29

30 (c) Deleting; and
31

32 (4) Restricted access to critical files and directories through:
33

34 (a) Encryption; or
35

36 (b) If approved by the Commission, internal controls provided the internal
37 controls include:
38

39 (i) The effective segregation of duties and responsibilities with
40 regard to the system; and
41

42 (ii) The automatic monitoring and recording by the system of
43 access by an individual to its files and directories.
44

45 C. Equipment, a system or software required to be tested, certified and approved under
46 this chapter shall, at a minimum, control system operations through:

- 1
2 (1) Generation of daily monitoring logs and alert messages documenting:
3
4 (a) System performance;
5
6 (b) Hardware problems; and
7
8 (c) Software errors;
9
10 (2) Authentication of the source of a data transmission;
11
12 (3) Transmission completeness and accuracy checks;
13
14 (4) Detection of corrupt or lost data packets;
15
16 (5) Rejection of a transmission;
17
18 (6) Use of cryptographic controls for critical transmissions of data; and
19
20 (7) Daily synchronization of its real time clock with that of equipment, systems
21 or software to which it is linked.
22
23 D. Equipment, a system or software required to be tested, certified and approved under
24 this chapter shall, at a minimum, control the integrity of data through:
25
26 (1) Validation of inputs to critical fields including data:
27
28 (a) Type; and
29
30 (b) Format;
31
32 (2) Rejection of corrupt data;
33
34 (3) Automatic and independent recordation of critical data;
35
36 (4) Independent verification of the accuracy of data; and
37
38 (5) Segregation of all security critical system programs, files and directories from
39 other programs, files and directories.
40
41 E. Equipment, a system or software required to be tested, certified and approved under
42 this chapter shall, at a minimum, ensure continuity through:
43
44 (1) Data redundancy to permit a complete and prompt recovery of all information
45 in the event of malfunction or power interruption; and
46

1 (2) Environmental protections, including an uninterruptible power supply to
2 protect critical hardware.

3
4 **.23 Video Lottery Terminal – Additional Requirements.**

5
6 A. A manufacturer shall configure a video lottery terminal to wager credits available for
7 play in the following order:

8
9 (1) Noncashable credits; and

10
11 (2) Cashable credits.

12
13 B. A manufacturer may enable a video lottery terminal that has been tested, certified and
14 approved under this chapter for tournament play with the prior written approval of the
15 Commission.

16
17 **.24 Gaming Ticket System - Additional Requirements.**

18
19 A. A facility operator shall utilize a gaming ticket system that has been tested, certified
20 and approved under this chapter.

21
22 B. A facility operator shall, in a form and in a time frame specified by the Commission,
23 submit a report to the Commission detailing any adjustment made to the amount of a
24 gaming ticket.

25
26 C. In addition to complying with the minimum design standards of Regulation .22 of this
27 chapter, a gaming ticket system shall:

28
29 (1) Authenticate the source of a data transmission by identifying whether a
30 transmission originated with a:

31
32 (a) Video lottery terminal;

33
34 (b) Ticket redemption unit; or

35
36 (c) Cashiers' cage redemption location;

37
38 (2) Use cryptographic controls for transmissions that include:

39
40 (a) A gaming ticket series number;

41
42 (b) Meter information; and

43
44 (c) Other information used in the calculation or verification of
45 proceeds; and
46

1 (3) Control the integrity of data through generation of a unique series number on
2 a gaming ticket:

3
4 (a) Comprised of at least 18 numbers, symbols or characters;

5
6 (b) Containing at least three numbers, symbols or characters:

7
8 (i) Randomly generated in a manner approved by the Commission;
9 and

10
11 (ii) Designed to prevent an individual from being able to predict
12 the series number of any other gaming ticket;

13
14 (c) Containing at least one number, symbol or character unique to a
15 gaming ticket which visually differentiates between a gaming ticket and a
16 promotional play instrument; and

17
18 (d) Printed in at least two locations on a gaming ticket;

19
20 (4) Automatically and independently record the critical data required to be
21 printed on a gaming ticket under COMAR 36.04.04.36 at the time of gaming
22 ticket:

23
24 (a) Generation; and

25
26 (b) Redemption; and

27
28 (5) Independently verify, in a manner satisfactory to the Commission, the
29 accuracy of a gaming ticket series number and amount prior to redemption.

30
31 **.25 Ticket Redemption Unit - Additional Requirements.**

32
33 A. A facility operator may utilize a ticket redemption unit that has been tested, certified
34 and approved under this chapter.

35
36 B. In addition to complying with the minimum design standards of Regulation .22 of this
37 chapter, a ticket redemption unit shall, in a manner satisfactory to the Commission:

38
39 (1) Establish the validity of a gaming ticket or promotional play instrument by
40 comparing the unique series number on the ticket or instrument with electronic
41 records in a gaming ticket system or promotional play system;

42
43 (2) Cancel upon acceptance a gaming ticket or promotional play instrument to
44 prevent:

45
46 (a) Subsequent redemption at a:

1
2 (i) Cashiers' cage; or

3
4 (ii) Another ticket redemption unit; or

5
6 (b) Acceptance by a video lottery terminal; and

7
8 (3) Evaluate whether sufficient funds are available before accepting the gaming
9 ticket or promotional play instrument and completing the transaction.

10
11 C. The following error conditions may be cleared automatically by a ticket redemption
12 unit upon completion of a new transaction.

13
14 (1) Power reset;

15
16 (2) Door open;

17
18 (3) Door closed; and

19
20 (4) System communication loss.

21
22 D. The following error conditions shall result in placement of the ticket redemption unit
23 in disabled mode, shall prevent new transactions and shall only be cleared by a facility
24 operator:

25
26 (1) Failure to make payment meaning that a gaming ticket or promotional play
27 instrument was returned and no receipt for an unpaid amount was issued;

28
29 (2) Failure to make complete payment meaning no receipt for an unpaid amount
30 was issued;

31
32 (3) Bill validator failure; and

33
34 (4) Printer failure due to printer jam or lack of paper.

35
36 E. A ticket redemption unit shall be equipped with:

37
38 (1) The meters enumerated in § F of this regulation;

39
40 (2) Meters which continuously and automatically increment in credits equal to
41 cents; and

42
43 (3) An automated transaction log retaining all critical transaction history required
44 under this regulation for a period of not less than ten days subsequent to a power
45 loss.

1 F. A ticket redemption unit shall be equipped with electronic meters that function as
2 follows:

- 3
- 4 (1) A cashable gaming ticket in – count meter that accumulates the number of
5 cashable gaming tickets accepted by a ticket redemption unit;
6
- 7 (2) A cashable gaming ticket in – value meter that accumulates the total number
8 of credits on cashable gaming tickets accepted by a ticket redemption unit;
9
- 10 (3) A cashable promotional play instrument in – count meter that accumulates the
11 number of cashable promotional play instruments accepted by a ticket redemption
12 unit;
13
- 14 (4) A cashable promotional play instrument in – value meter that accumulates the
15 total number of credits on cashable promotional play instruments accepted by a
16 ticket redemption unit;
17
- 18 (5) Bill denomination – in count meters that accumulate, by denomination, the
19 total number of bills accepted by a ticket redemption unit;
20
- 21 (6) Bill denomination – in value meters that accumulate, by denomination, the
22 total dollar amount of currency accepted by a ticket redemption unit;
23
- 24 (7) Bill denomination – out count meters that accumulate, by denomination, the
25 total number of bills dispensed by a ticket redemption unit;
26
- 27 (8) Bill denomination – out value meters that accumulate, by denomination, the
28 total dollar amount of currency dispensed by a ticket redemption unit; and
29
- 30 (9) Other meters required by the Commission.
31

32 G. The automated transaction log required under § E(3) of this regulation shall include
33 for each transaction, whether complete or incomplete, the following:
34

- 35 (1) Date and time;
36
- 37 (2) Amount;
38
- 39 (3) Disposition as complete or incomplete;
40
- 41 (4) Error conditions including failed access attempts;
42
- 43 (5) User access data; and
44
- 45 (6) If equipped to redeem multiple cashable gaming tickets and cashable
46 promotional play instruments in a single transaction, a breakdown of the

1 transaction by individual cashable gaming ticket and cashable promotional play
2 instrument.

3
4 **.26 External Bonusing System - Additional Requirements.**

5
6 A. A facility operator may utilize an external bonusing system that has been tested,
7 certified and approved under this chapter.

8
9 B. In addition to complying with the minimum design standards of Regulation .22 of this
10 chapter, a video lottery terminal connected to an external bonusing system shall not equal
11 or exceed an average payout percentage of 100% when the contribution of any bonus
12 awards available on a video lottery terminal is added to the video lottery terminal's
13 average payout percentage.

14
15 **.27 Cashless Funds Transfer System - Additional Requirements.**

16
17 A. A facility operator may utilize a cashless funds transfer system that has been tested,
18 certified and approved under this chapter.

19
20 B. A facility operator shall, in a form and in a time frame specified by the Commission,
21 submit a report to the Commission detailing any adjustment made to the amount of a
22 credit transferred to or from a video lottery terminal by means of a cashless funds transfer
23 system.

24
25 C. A facility operator utilizing a cashless funds transfer system shall develop and include
26 in the internal controls submitted to and approved by the Commission under COMAR
27 36.04.04.05 procedures addressing the integrity, security and control of a cashless funds
28 transfer system.

29
30 D. A facility operator's internal controls shall address:

31
32 (1) Set-up and administration of a player account including:

33
34 (a) The procedures utilized to create a unique access code to, and a unique
35 player identification number for, a player account; and

36
37 (b) The controls employed to secure a player's access code;

38
39 (2) The intended scope of use of a cashless funds transfer system including
40 whether it will be used to:

41
42 (a) Transfer credits to a video lottery terminal; and

43
44 (b) Transfer credits from a video lottery terminal to a player account; and

45
46 (3) Documentation of individual player transactions including a requirement that:

1
2 (a) Each transaction is identified, at a minimum, by:

3
4 (i) Date and time;

5
6 (ii) Video lottery terminal manufacturer serial number or
7 Commission asset number; and

8
9 (iii) The player's account identification number;

10
11 (b) A statement of player account activity is available to a player on:

12
13 (i) Submission of a signed request for the statement at the
14 cashiers' cage; and

15
16 (ii) Establishing the identification of the player including the
17 authenticity of the player's signature on the request for the
18 statement in accordance with the signature authentication
19 procedures in COMAR 36.04.04.20;

20
21 (c) The statement of player account activity required under this regulation
22 summarize, at a minimum, a player's activity during the month prior to the
23 date of the request for a statement and include:

24
25 (i) Player's beginning credit balance;

26
27 (ii) Credits earned during the month;

28
29 (iii) Credits transferred to a video lottery terminal;

30
31 (iv) Credits transferred from a video lottery terminal to a player
32 account; and

33
34 (v) Player's ending credit balance; and

35
36 (d) The statement of player account activity required under this regulation
37 need not include promotional play credits transferred to a player without
38 regard to the identity of the player.
39

40 **.28 Progressive Video Lottery Terminals.**

41
42 A. A video lottery terminal offering a progressive jackpot may:

43
44 (1) Stand alone;

45
46 (2) Be linked to:

1
2 (a) Other video lottery terminals in a facility; or

3
4 (b) Video lottery terminals in two or more facilities in or outside the state
5 through a wide area progressive system under Regulation .29 of this
6 chapter.
7

8 B. A manufacturer may not install in a facility, and a facility operator may not make
9 available for play, a video lottery terminal offering a progressive jackpot without
10 Commission approval in writing of:

11
12 (1) A progressive proposal under Regulation .30 of this chapter; and

13
14 (2) Internal controls submitted under COMAR 36.04.04.05 addressing the
15 payment of a progressive jackpot.
16

17 C. A manufacturer may not modify the terms of a progressive jackpot, and a facility
18 operator may not make available for play, a video lottery terminal which offers a
19 progressive jackpot that differs from its approved progressive proposal without the
20 approval in writing of the Commission under Regulation .30(B) of this chapter.
21

22 D. A video lottery terminal may offer multiple progressive jackpots.
23

24 E. A progressive jackpot amount may be calculated and transmitted to a video lottery
25 terminal by:

26
27 (1) The operating system of a video lottery terminal; or

28
29 (2) A separate progressive controller interfaced to a video lottery terminal.
30

31 F. A progressive controller shall be:

32
33 (1) Located in a restricted area;

34
35 (2) Secured:

36
37 (a) In a dual key controlled compartment with:

38
39 (i) One key controlled by a manufacturer or the facility manager;
40 and

41
42 (ii) One key controlled by the Commission; or

43
44 (b) By alternative means approved by the Commission; and

45
46 (3) Capable of:

1
2 (a) Displaying an available progressive jackpot amount on a video lottery
3 terminal's:

4
5 (i) Progressive meter; or

6
7 (ii) Common progressive meter;

8
9 (b) Transmitting to a video lottery terminal for metering purposes the
10 amount of a progressive jackpot;

11
12 (c) If linked to a common progressive meter in accordance with § H of
13 this regulation, displaying the Commission asset number of the video
14 lottery terminal on which a progressive jackpot is won;

15
16 (d) If a progressive controller is servicing multiple video lottery terminals,
17 automatically resetting all video lottery terminals connected to it to a pre-
18 established reset amount; and

19
20 (e) If the progressive offers multiple jackpot levels, maintaining and
21 displaying for each progressive level the:

22
23 (i) Number of progressive jackpots won;

24
25 (ii) Cumulative amount paid;

26
27 (iii) Maximum progressive payout;

28
29 (iv) Minimum amount or reset amount; and

30
31 (v) Rate of progression.

32
33 G. A video lottery terminal offering a progressive jackpot shall be equipped, for each
34 progressive jackpot offered, with the following mechanical, electrical or electronic
35 meters:

36
37 (1) A progressive meter which:

38
39 (a) May increase in value based upon wagers;

40
41 (b) Advises the player of the amount which may be won if the video
42 lottery terminal characters that result in the award of a progressive jackpot
43 appear as a result of activation of play; and

44
45 (c) Is visible from the front of the video lottery terminal through:
46

- 1 (i) A meter display housed in the video lottery terminal; or
2
3 (ii) A common progressive meter display unit;
4
- 5 (2) A progressive payout meter under Regulation .16(C)(2)(b) of this chapter;
6
- 7 (3) An attendant paid progressive jackpot meter under Regulation .16(C)(2)(f) of
8 this chapter; and
9
- 10 (4) A cumulative progressive payout meter that continuously and automatically
11 records the total value of progressive jackpots paid whether paid:
12
- 13 (a) Directly by the video lottery terminal; or
14
- 15 (b) Hand paid by a facility operator as a result of a progressive jackpot
16 that exceeds the physical or configured capability of a video lottery
17 terminal.
18
- 19 H. A video lottery terminal linked to a common progressive meter for the purpose of
20 offering the same progressive jackpot on two or more video lottery terminals shall:
21
- 22 (1) Have the same probability of hitting the combination of characters that will
23 award the progressive jackpot as every other video lottery terminal linked to that
24 common progressive meter; and
25
- 26 (2) Require each:
27
- 28 (a) Player to wager the same amount to receive a chance at winning the
29 progressive jackpot; and
30
- 31 (b) Wager to increment the progressive meter by the same rate of
32 progression on every video lottery terminal connected to the common
33 progressive meter.
34
- 35 I. Notwithstanding the requirements of § H of this regulation, video lottery terminals
36 linked to a common progressive meter for the purpose of offering the same progressive
37 jackpot on two or more video lottery terminals may be of different denominations or
38 require different wagers, or both, if:
39
- 40 (1) The probability of winning the progressive jackpot is directly proportional to
41 the wager required to win a jackpot; and
42
- 43 (2) A notice indicating the proportional probability of hitting the progressive
44 jackpot on the common progressive meter is conspicuously displayed in a manner
45 specified by the Commission on each linked video lottery terminal.
46

1 J. A manufacturer may not:

2
3 (1) Set a limit for a progressive jackpot which exceeds the display capability of
4 the progressive meter; and

5
6 (2) Adjust a progressive meter without the prior approval of the Commission
7 unless the adjustment is:

8
9 (a) Required as a direct result of video lottery terminal or meter
10 malfunction; and

11
12 (b) Reported by the manufacturer in a form and in a time frame specified
13 by the Commission to the:

14
15 (i) Commission; and

16
17 (ii) Facility operator.

18
19 **.29 Wide Area Progressive System.**

20
21 A. A manufacturer may not install, and a facility operator may not make available for
22 play, a wide area progressive system without Commission approval in writing of a:

23
24 (1) Wide area progressive agreement under § C of the regulation;

25
26 (2) Progressive proposal under Regulation .30 of this chapter; and

27
28 (3) Internal controls submitted under COMAR 36.04.04.05 addressing the
29 payment of a progressive jackpot on a video lottery terminal participating in a
30 wide area progressive system.

31
32 B. A manufacturer may not modify the terms of a progressive jackpot offered through a
33 wide area progressive system, and a facility operator may not make available for play, a
34 video lottery terminal which offers a progressive jackpot that differs from its approved
35 progressive proposal without the approval in writing of the Commission under
36 Regulation .30(B) of this chapter.

37
38 C. A wide area progressive system shall operate under the terms and conditions of a
39 wide area progressive agreement between:

40
41 (1) The Commission;

42
43 (2) A manufacturer; and

44
45 (3) Participating facility operators in or outside the state.
46

1 D. A wide area progressive agreement shall assign responsibility for the operation and
2 administration of a wide area progressive system to a designated system operator who
3 may be a:

- 4
- 5 (1) Participating facility operators in or outside the state; or
- 6
- 7 (2) Manufacturer.
- 8

9 E. A wide area progressive agreement shall address:

10

11 (1) The duties and responsibilities of the:

12

13 (a) Participating:

14

15 (i) Manufacturer; and

16

17 (ii) Facility operators in or outside the state; and

18

19 (b) A system operator;

20

21 (2) The terms of compensation for a system operator including to what extent the

22 system operator is to receive compensation based, directly or indirectly, on an

23 interest, percentage or share of the proceeds of a wide area progressive system;

24

25 (3) Responsibility for progressive jackpots, proceeds and expenses associated

26 with the operation of a wide area progressive system;

27

28 (4) Control and operation of a system monitor room under § F of this regulation;

29

30 (5) Service and maintenance of a wide area progressive system;

31

32 (6) Responsibility for generating, filing and maintaining the records and reports

33 required under this subtitle;

34

35 (7) If applicable, terms with regard to establishing and servicing any trust

36 agreement associated with an annuity jackpot offered by a wide area progressive

37 system under COMAR 36.04.04.40; and

38

39 (8) If requested by the Commission, additional documentation with regard to a

40 wide area progressive agreement.

41

42 F. A wide area progressive system shall be controlled and operated from a system

43 monitor room:

44

45 (1) Under the sole possession of, and maintained and operated by, the system

46 operator designated in a wide area progressive agreement;

1
2 (2) In a location approved by the Commission;

3
4 (3) If required by the Commission, staffed by individuals licensed as gaming
5 employees;

6
7 (4) Subject to:

8
9 (a) Surveillance coverage satisfactory to the Commission; and

10
11 (b) Access controls satisfactory to the Commission including a monitor
12 room access log in accordance with § G of this regulation.

13
14 G. A system operator shall maintain a monitor room access log:

15
16 (1) Signed by each individual entering the system monitor room except an
17 employee of a system operator assigned to the system monitor room on his
18 assigned shift;

19
20 (2) Maintained in a book with bound numbered pages that cannot be readily
21 removed;

22
23 (3) Utilized to document the following:

24
25 (a) Date and time of entry;

26
27 (b) Entering individual's signature;

28
29 (c) Reason for entering the system monitor room including the
30 identification of areas inspected or repaired; and

31
32 (4) Retained by a system operator for a minimum of three years from the date of
33 the last entry unless a request for destruction is submitted in writing and approved
34 in writing by the Commission.

35
36 **.30 Progressive Proposal.**

37
38 A. A progressive proposal:

39
40 (1) Shall be jointly prepared, executed and submitted to the Commission by a
41 facility operator and a manufacturer;

42
43 (2) Shall include the following:

44
45 (a) Manufacturer's:

- 1 (i) Serial number;
2
3 (ii) Model number;
4
5 (iii) Software identification number; and
6
7 (iv) Version number;
8
9 (b) Denomination or a designation as multi-denomination;
10
11 (c) Cabinet style;
12
13 (d) An indication as to whether the video lottery terminal is to be:
14
15 (i) Stand alone;
16
17 (ii) Linked to other video lottery terminals in a facility; or
18
19 (iii) Linked to a wide area progressive system;
20
21 (e) The initial and reset amounts at which the progressive meter or meters
22 will be set;
23
24 (f) For each progressive jackpot the:
25
26 (i) Rate of progression;
27
28 (ii) Limit; and
29
30 (iii) Probability of winning; and
31
32 (g) If requested by the Commission, additional documentation; and
33
34 (3) May be approved in writing by the Commission.
35

36 B. A manufacturer may not modify the terms of a progressive jackpot, and a facility
37 operator may not make available for play, a video lottery terminal which offers a
38 progressive jackpot that differs from its approved progressive proposal without:
39

- 40 (1) Submission to the Commission, in a time frame specified by the Commission,
41 of a request for modification of an approved progressive proposal identifying any
42 proposed change to the terms and conditions of the progressive proposal to be
43 modified; and
44
45 (2) The approval in writing of the Commission.
46

1 C. The Commission may consider the following modifications to an approved
2 progressive proposal:

3
4 (1) A revision to the payout limit on an available progressive jackpot provided
5 the revised payout limit is greater than the then current payout amount on the
6 progressive jackpot meter;

7
8 (2) Transfer of an available progressive jackpot amount in accordance with § D
9 of this regulation,

10
11 (3) Removal from the gaming floor of a video lottery terminal offering a
12 progressive jackpot in accordance with § E of this regulation; and

13
14 (4) Other modifications deemed consistent with this regulation by the
15 Commission.

16
17 D. A transfer of an available progressive jackpot amount under § C(2) of this regulation
18 shall involve:

19
20 (1) The entire amount;

21
22 (2) Transfer to the:

23
24 (a) Progressive meter of a video lottery terminal with the same:

25
26 (i) Or greater probability of winning the progressive jackpot;

27
28 (ii) Or lower wager requirement to be eligible to win the
29 progressive jackpot; and

30
31 (iii) Type of progressive jackpot award; or

32
33 (b) Progressive meters of two separate video lottery terminals provided
34 each terminal to which a jackpot amount is transferred individually
35 satisfies the requirements of § D(2)(a) of this regulation; and

36
37 (3) Disclosure of the intent to transfer an available progressive jackpot amount on
38 the front of a video lottery terminal in a manner specified by the Commission for
39 at least 30 days prior to the intended date of transfer.

40
41 E. Removal from the gaming floor of a video lottery terminal offering a progressive
42 jackpot under § C(3) of this regulation shall require:

43
44 (1) If the removal involves one or more linked video lottery terminals offered in:
45

1 (i) A single facility, that at least two linked video lottery terminals
2 offering the same progressive jackpot remain on the gaming floor;
3 and
4

5 (ii) More than one facility, that the facility operator retain at least
6 one linked video lottery terminal offering the same progressive
7 jackpot on its gaming floor; and
8

9 (2) In every case, disclosure of the intent to transfer an available progressive
10 jackpot on the front of a video lottery terminal in a manner specified by the
11 Commission for at least 30 days prior to the intended date of transfer.
12

13 F. Nothing in this regulation shall preclude the Commission from imposing additional
14 terms and conditions on a modification of a progressive proposal.
15

16 **.31 Remote Access.**

17
18 A. A manufacturer may not perform from a remote location analysis of, or technical
19 support with regard to, a video lottery terminal without:
20

21 (1) Submission of a written request to the Commission; and
22

23 (2) The written approval of the Commission.
24

25 B. A manufacturer may perform from a remote location analysis of, or technical support
26 with regard to, a facility operator's video lottery systems including, but not limited to, a:
27

28 (1) Gaming ticket system;
29

30 (2) Promotional play system;
31

32 (3) Player tracking system;
33

34 (4) External bonusing system;
35

36 (5) Cashless funds transfer system; and
37

38 (6) Wide area progressive system.
39

40 C. A facility operator intending to authorize remote access to a video lottery system
41 under this regulation shall include in its internal controls submitted for Commission
42 approval under COMAR 36.04.04.05 a written system of access protocols which require:
43

44 (1) A unique system account for each employee of a manufacturer identified by
45 the manufacturer as potentially required to perform technical support from a
46 remote location;

1
2 (2) Use of a dedicated and secure communication facility;
3

4 (3) Prior notice by the manufacturer of an intent to remotely access a system to
5 the:
6

7 (a) Facility operator; and
8

9 (b) Commission;
10

11 (4) The facility operator to take affirmative steps, on a per access basis, to
12 activate a manufacturer's access privileges;
13

14 (5) Imposition of limits on the ability of any individual authorized under this
15 regulation to deliberately or inadvertently interfere with:
16

17 (a) The normal operation of the system; and
18

19 (b) Its data;
20

21 (6) An access log:
22

23 (a) Maintained by both the:
24

25 (i) Manufacturer; and
26

27 (ii) Facility operator's information technology department;
28

29 (b) Maintained in:
30

31 (i) A book with bound numbered pages that cannot be readily
32 removed; or
33

34 (ii) An electronic format equipped with software that prevents
35 modification of an entry after it has been initially entered into the
36 system; and
37

38 (c) Documenting the:
39

40 (i) Manufacturer version number of the system accessed;
41

42 (ii) Type of connection as leased line, dial in modem or private
43 WAN;
44

45 (iii) Name of the manufacturer employee remotely accessing the
46 system;

(iv) Name of the information technology department employee activating the manufacturer's access to the system;

(v) Date and time of the connection;

(vi) Duration of the connection;

(vii) Reason for the remote access including a description of the symptoms or malfunction prompting the need for remote access to the system; and

(viii) Any action taken or further action required.

D. A facility operator may not authorize a manufacturer to remotely access a video lottery system until its system access protocols are approved in writing by the Commission.

E. Any modification to a system required to be tested, certified and approved by the Commission under Regulation .02(E) of this chapter shall be processed as:

(1) An emergency modification under Regulation .07 of this chapter; or

(2) A standard modification under Regulations .03(C) and .04(C) of this chapter.

F. If an employee of a manufacturer is no longer employed or authorized by a manufacturer to remotely access a system pursuant to this regulation, the manufacturer shall:

(1) Immediately notify in writing:

(a) Any facility operator that has established a unique system account for that employee of the change in authorization; and

(b) The Commission; and

(2) Verify with each facility operator notified of the change in authorization that the access privileges of the individual have been revoked.

.32 Manufacturer Storage of Equipment, Systems and Software Outside a Facility.

A. A manufacturer may not utilize a location outside of a facility to store or repair equipment, systems, software or related parts and inventory for use in a facility without the storage facility being:

(1) Inspected by the Commission; and

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(2) Approved in writing by the Commission.

B. A manufacturer shall locate a storage facility in Maryland in a location or locations that reasonably permit the delivery of the support and technical services to which the manufacturer is obligated.

C. A manufacturer shall submit to the Commission a written request to utilize a storage facility under § A of this regulation which includes, at a minimum:

- (1) Address;
- (2) Physical description of the storage facility;
- (3) Specifications for the surveillance system that has been or will be installed at the proposed storage facility including:
 - (a) If digital:
 - (i) Recording frames per second; and
 - (ii) Common image rate; and
 - (b) Proposed recording retention schedule; and
- (4) Security procedures for the storage facility.