NEVADA GAMING CONTROL BOARD
ASSOCIATED EQUIPMENT REVIEW CHECKLIST
INTER-CASINO LINKED SYSTEMS AND
LOCAL AREA PROGRESSIVE SYSTEMS

Auditors' Initials and Date

Manufacturer: _____ Review Date(s): _____

System/Version: _____ Auditor(s): _____

Trial Location Name: _____ _____

Mfr#: _____ GCB Lab#: _____ Trial Location #: _____

Manufacturer's Personnel	Position	Contact Information

Definitions: "CWS" refers to a Cashless Wagering System.
"System" refers to both OSMS and CWS.
"ILS" refers to Inter-Casino Linked System.

	Pass	Fail	N/A	Comments
System Functionality and Reporting Requirements				
General Report Requirements				
1. Do all reports generated by the system contain the following attributes: (a) Page Numbering, indicating the current page and total number of pages? (e.g. Page X of Y) (b) Current Software Version Number? (including the engineering build number) (c) Date/Time period (from and to) of activity covered by the report or, alternatively, an indication of "As Of" if the report includes data from a specific point in time? (d) Date/Time the document was generated? (e) Column and row titles? (f) Title of the report (g) Grand totals for the activity period covered by the report, and grand totals for the month-to-date, year-to-date, and life-to-date (at least two year comparison) amounts? **Industry Letter on Associated Equipment Reporting Requirements dated February 19, 2010**				
2. Does the system generate reports for all periods of activity even if the system has no data to present for the date/time period specified? **Industry Letter on Associated Equipment Reporting Requirements dated February 19, 2010**				
3. If the system has no data to present for one or more periods, do all system generated reports present $0 dollar amounts or, alternatively, an indication of "No Activity" for these periods? **Industry Letter on Associated Equipment Reporting Requirements dated February 19, 2010**				
Logical Access Controls and Logging				
4. Describe the method(s) employed to secure the system (i.e. passwords, biometrics, etc.) at all levels (Application, Database, Network, Operating System)? **IT MICS #5**				
5. Describe the method the system utilizes to force periodic password changes for user accounts. **IT MICS #6(a)**				
6. Describe how system utilizes password complexity requirements for user accounts with passwords being at least eight characters in length, and by utilizing at least two of the following four requirements: **IT MICS #6(b)** (a) Upper Case Letters. (b) Lower Case Letters. (c) Special Characters. (d) Numeric Characters.				

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7. Describe the method that the system uses to prevent passwords from being reused (i.e. non-reusable for a period of 18 months or, non-reusable for at least 10 password changes). **IT MICS #6(c)**				
8. How does the system detect and prevent users from gaining access through repeated password attempts resulting in failed login attempts? **IT MICS #6(d)**				
9. How does the system log, at a minimum, the following events: **IT MICS #7** (a) Failed login attempts? (b) Abnormal or unauthorized changes to live data files? (c) Changes to system policies and parameters? (d) Activity of administrative accounts? (e) Changes to date/time on master time server?				
10. Describe the method to review the system logs (i.e. available in one or more reports, or viewable only through the system interface). **IT MICS #7**				
11. Does the system generate reports for exception type activities (e.g., changes to system parameters, corrections, overrides, voids, etc.) that include the following, at a minimum: [Specify the report title(s)] **IT MICS #9** (a) Date/Time of alteration? (b) Identification of user performing the alteration? (c) Data or parameter that was altered? (d) Value of the data or parameter prior to alteration? (e) Value of the data or parameter after alteration?				
12. How does the system manage permissions for user accounts (i.e. through use of Group profiles or through Individual profiles) at the application, database, network, or operating system level? **IT MICS #10 & 11**				
13. Describe and name the report(s) that the system produces listing user access that contains the following: **IT MICS #12 (a) – (h)** (a) Employee name. (b) Employee title or position description. (c) User login name. (d) Full list and description of application functions that each group/user account may execute. (e) Date/Time account was created. (f) Date/Time of last login. (g) Date of last password change. (h) Date and time account was disabled or deactivated. (i) Group membership of user account.				
14. How does the system export the user access listing report to an electronic format that allows it to be reviewed using analytical data tools (i.e. spreadsheet or database)? **IT MICS #32**				
15. Describe and list whether, and how, the system creates Generic, Default, Service/System, or Administrative level accounts upon installation at the operating system layer, application layer, or database layer? **IT MICS #17-21**				
16. Describe how the system logs all administrative account usage, including the following: **IT MICS #23**				

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(a) Date/Time of activity. (b) Login account name. (c) Description of event. (d) Value before change. (e) Value after change.				
17. Describe the method of retention and viewing of such logs. **IT MICS #23**				
18. Describe the method of configuring the system to secure terminals and server consoles after a defined period of inactivity. **IT MICS #43**				
ILS Manufacturer				
19. Does the system generate a report showing the configuration of the ILS progressive(s) that are configured and active? If so, name the report(s).				
20. Does the system provide a report for all changes to ILS progressive parameters (i.e. reset value, contribution rate, etc.)? If so, name the report(s). **Reg. 5.112(4)**				
21. Does the system record the base amount of each progressive payoff schedule when first exposed for play? **Reg. 5.112(3)**				
22. Does the system record each payoff and subsequent reset? **Reg. 5.112(3)**				
23. Does the system record the amount of the progressive payoff schedule daily on a daily basis? **Reg. 5.112(3)**				
24. Does the system record any adjustments to the progressive amount along with fields to document explanations for any decreases in the payoff schedule? **Reg. 5.112(3)**				
25. Does the system provide a report(s) of the following for each progressive subjected for play by participating location and by machine to include: If so, name the report(s). a. Beginning coin in meter? b. Ending coin in meter? c. Coin in delta for the day? d. Contribution amount to the progressive? e. Contribution rate? f. Contributions to any pool not displayed to patrons?				
26. When communications are disrupted between the central ILS controller and locations and/or machines, how does the system handle such disruptions (i.e. accounting for patron contributions during disruption, resolving hits occurring at disrupted locations and/or active communicating branches, etc.)?				
27. Does the system log and report the disruption of communications between participating locations and the central site? If so, name the method and/or report(s).				
28. How long does the system retain exception information?				
29. Does the system provide a breakdown of the pro-rata share of payout for progressive hits by participating location? If so, name the report(s).				

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30.	Does the system prevent an ILS progression rate from being configured at less than 0.4 of one percent of Coin In, or less than $100 per day (for progressives not tied to EGM activity)? **Reg. 14.045(1)**				
31.	Does the system document changes to the rate of progression, including those between multiple progressive payoff schedules and reset funds? If so, name the report(s). **Reg. 5.112(4)**				
32.	How does the system prevent unauthorized changes to progressive pool parameters and contribution rates?				
33.	Does the system allow for configuration of a progressive pool with a limit?				
34.	Describe the manner in which the ILS system secures data transmissions between the games and devices connected to the ILS and the central site server(s). **Reg. 14.045(2)**				
35.	Does the system employ a mechanism to secure all contribution, meter information, and payoff information collected from participating locations from unauthorized deletion or alteration? If so, identify the method used.				
	ILS Operator				
36.	Does the system maintain records of all machines that have been, or currently are enrolled to participate and contribute to each progressive pool? If so, name the report(s).				
37.	Does the system record and report the following: If so, name the report(s). a. Date and time the progressive was placed in active service? b. Date and time each location was linked to the progressive? c. Date and time each machine at each location was enrolled in the progressive? d. Date and time each machine and/or location was removed from the progressive? e. Date and time each progressive was removed from service and the amount at the time of removal?				
	System Components and Configurations				
1.	Specify the operating system name and version for all servers on which the system is being installed.				
2.	Specify the components being submitted for approval with the system including name, version, and server name/location where component is installed.				
3.	If the system utilizes back-end database(s), specify the database name, version, and server name/location housing the database(s) (i.e. FoxPro, Db2, MS SQL, Oracle, Pervasive, SQL Anywhere, etc.)				
4.	Specify the IP addresses for each server housing system components and data. (Include a topology diagram and network mapping diagram with the submission)				
5.	List all user accounts and associated account passwords				

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that are configured on the system submitted for approval. (This includes accounts at the operating system, database, network, and application layers)				
6. List the report generation software and version, if applicable (i.e. Crystal Reports, Microsoft SQL Reporting Services, etc.)				
<u>Setup Activities</u>				
1. Create the following user accounts on the ILS system: (a) Slot Floorperson (b) Slot Supervisor (c) Accounting ILS Auditor (d) System Administrator				
2. Configure the ILS system with a minimum of three casinos – with each having at least two slot machines on the link from different manufacturers and platforms. **Note:** One casino must have each slot machine on a separate controller. The other casinos may each have participating slot machines on a single controller.				
3. Configure at least one cashier station.				
4. Configure at least two progressives on the controller with differing incremental rates (one to be time based, if possible).				
5. Configure at least a primary jackpot for each progressive, with a secondary if such functionality is available.				
6. Ensure the progressive jackpot begins at the re-set amount prior to testing.				
7. Generate all applicable beginning meter reports and jackpot accumulation reports.				
8. Verify that the times on all components of the system are the same and in sync.				
9. Verify that the all machines have been dropped and the day has been closed out properly.				
<u>Daily Tests of Transactions</u> (To be performed over all three test dates)				
1. Read and record the beginning coin-in meters for each machine on the link.				
2. Read and record the beginning progressive reading on the progressive meter sign for both the primary and any secondary jackpots, if applicable.				
3. Trace all manually read meter readings to the system reports and resolve any variances noted prior to beginning play.				
4. Generate coin-in play. **Note:** Play simulators may be used to generate coin-in.				

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5.	Force at least two progressive jackpots (one primary and one secondary) at different locations and on different machines. Read and record the applicable progressive sign both prior to the jackpot and subsequent to the jackpot.				
6.	Ensure the progressive signs reduce by the jackpot amount and reset to the correct reset amounts.				
7.	At the end of the day, read and record the ending coin-in meters. Read the ending progressive readings on the progressive meter signs.				
8.	Generate all applicable ending meter reports, jackpot accumulation reports, and all other applicable end of day reports.				
9.	Reconcile all manual coin-in meter readings to the meter reports.				
10.	Reconcile the progressive jackpots to the progressive sign readings, the jackpot accumulation reports and all other applicable end of day reports.				
	<u>Other Test Scenarios</u>				
11.	Attempt to make a negative adjustment to the progressive using a user account not authorized to perform such a function. Note the system's ability to log such an occurrence.				
12.	Make a valid adjustment to the primary and secondary jackpots on one of the progressives using an account authorized to perform this function. Ensure the progressive signs reduce by the jackpot amount and reset to the correct reset amounts. Also ensure the system requires that a reason for such a reduction be input and is reported by the system, along with the date and time of the adjustment, and pre and post adjusted balances.				
13.	Generate all applicable month to date reports and ensure all amounts accurately trace to the accumulation of all daily reporting amounts.				
14.	To ensure there is no breakdown in the system during communication disruptions and gaming device moves: a. For one <u>machine</u> on the link: i. Read and record both the coin-in game meter and the coin-in system meter. ii. Disconnect this machine from the link. While disconnected, ensure the machine is disabled from play on the link. iii. Reconnect the machine to the link. Read and record both the coin-in game meter and the coin-in system meter to ensure all coin-in is properly recorded by the system. b. For one <u>casino</u> on the link: i. Read and record both the coin-in game meter and the coin-in system meters for both slot machines in that casino.				

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ii. Disconnect the location from the link. While disconnected, ensure the machines are disabled from play on the link. iii. Reconnect the location to the link. Read and record both the coin-in game meters and the coin-in system meters for both machines in the location to ensure all coin-in is properly recorded by the system. c. For a location configured with each slot machine on a separate controller: i. Read and record both the coin-in meter and the coin-in system meter for both machines. ii. Move one slot machine from one controller to another controller. Read and record both coin-in meters and the coin-in system meters for all machines at the location to ensure coin-in activity is properly recorded by the system.				