Auditing 543.20

NIGC Information Technology Division

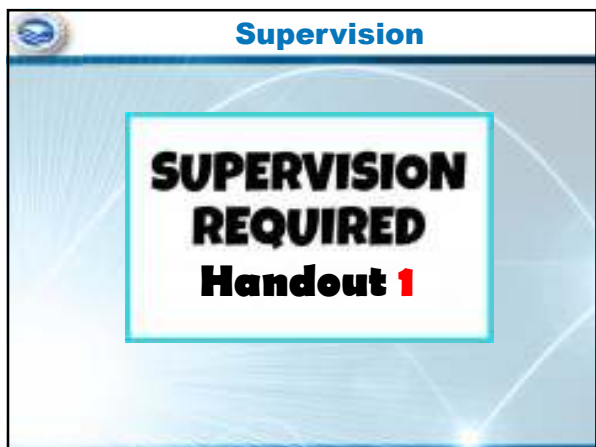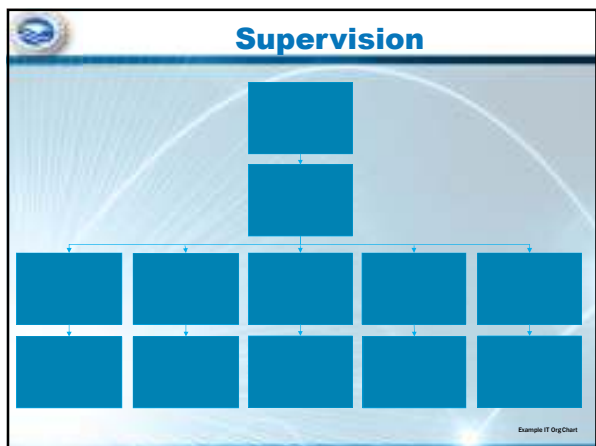National Indian Gaming Commission

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What to Expect:

- Supervision - CFR543.20a
- Class II Gaming Logical and Physical Controls - CFR543.20c

- Physical Security - CFR543.20d
- Logical Security - CFR543.20e
- User Controls - CFR543.20f
- Remote Access - CFR543.20h
- Data Backups - CFR543.20j

- Software Downloads - CFR543.20k
- Verifying Downloads - CFR543.20l

- Installation and/or modifications - CFR543.20g

- Incident monitoring and reporting - CFR543.20i

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Where to Begin-??

Surveillance

Hotel Shops

Restaurants

Hotel Operations

Servers and Kiosks

Gaming

Casino Management System

Supervision

Supervision

SUPERVISION REQUIRED
Handout 1

Supervision

Class II Gaming Systems Logical and Physical Controls

Importance Of :

Tribal Internal Controls or (TICS)

System of Internal Controls or (SICS)

Threat — Asset — Vulnerability — Risk

Ask Yourself

1. Who is in charge?
2. Should this person be independent of the class II system?
3. What methods (i.e. policy &/or procedure) is in place to detect errors or fraud?
4. Should that person have access to accounting, audit entries, or payouts?
5. Is there an audit procedure? How is the audit completed and how is it recorded?
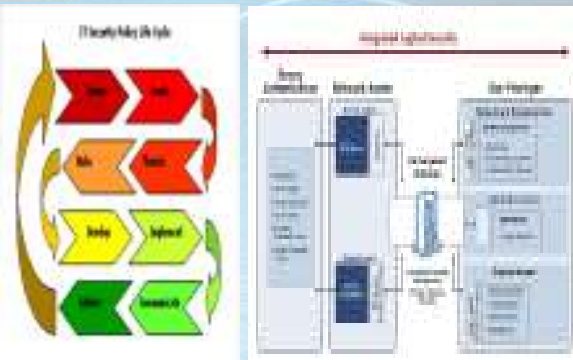
Physical Security

Ask Yourself

1. Are there policy and procedures in place for Physical Security?
2. Who is responsible or have access to IT with, keys, cards, fobs?
3. What group or who is recording those that access the area and why?
4. Should that person be in the area and are the credentials of non- employee/venders checked before access is granted?
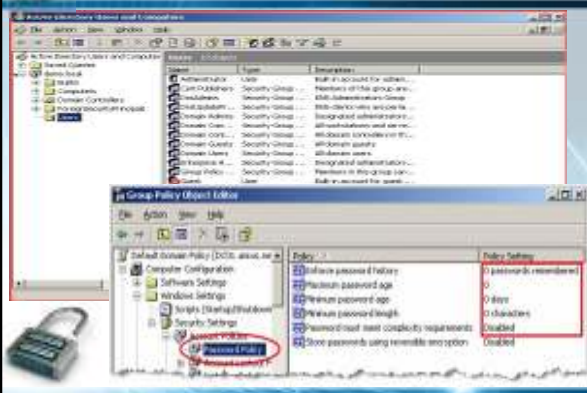
Logical Security

Ask Yourself

1. What policy and/or procedure exist for storage or recovery of media?
2. Is there access to the data, where is it logged, how often and by whom?
3. When an employee is terminated/leaves, who manages the rights and roles of those terminations? Also are there date restrictions?
4. What is the audit process for those records and how often are they reviewed?
5. Are robust passwords policies and procedures in place and what timeframe is set for them to be changed?
6. Are there policy and procedures in place for network ports on and off the floor to be disabled when not in use?
7. What type of data encryption is in place, if any?
8. Who ensures software is verified from the vendor(s)?
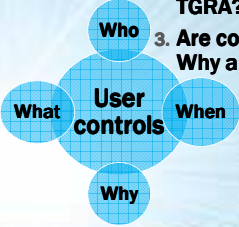
Physical vs Logical Security

Handout 2

User Controls

Ask Yourself

1. Who is assigned to control, update or modify system functions and/or credentials?
2. Are there roles and responsibilities for controls and are they approved by the TGRA?
3. Are control recorded with Who, When, Why and What was completed?

Who

What   **User controls**   When

Why

Passwords

Online password strength checking sites:
http://howsecureismypassword.net/

Source: XKCD https://xkcd.com/936/

Remote Access

Remote Access

| | | | | | | | Monthly Logon/Logoff Report | |
Login	Logout	Group	Computer	Port	Remote IP	Username	Logon Type	Duration
Wed 2017-24-01 03:23:43PM	Wed 2017-24-01 04:25:44PM	Casino Name	DB Server	4025	10.70.158.129	Vendor\Name of individual performing work	Terminal Services	1h 2m 41s
Thur 2017-24-01 03:23:43PM	Thur 2017-24-01 04:25:44PM	Casino Name	DB Server	4076	10.70.158.145	Vendor\Name of individual performing work	Terminal Services	1h 2m 41s
Tue 2017-24-01 03:23:43PM	Tue 2017-24-01 04:25:44PM	Casino Name	DB Server	5284	10.70.158.121	Vendor\Name of individual performing work	Terminal Services	1h 2m 41s
Mon 2017-24-01 03:23:43PM	Mon 2017-24-01 04:25:44PM	Casino Name	DB Server	3845	10.70.158.102	Vendor\Name of individual performing work	Terminal Services	1h 2m 41s

Ask Yourself

Is there a Process for remote access that includes:

1. When, Why and What was done during the remote access session and when the access was closed or terminated and by whom?
2. Who was granted access, and who granted the access? License?
3. Is the remote access being done with a secure method? What is that method?

Remote Access - Exercise

Handout 4

Data Backup

Ask Yourself

1. What is the backup process for all critical information and programs; is it stored in a means that is adequately protected from loss?
2. How often are the backups performed?
3. Is the information mirrored for redundancy and can the data be restored if required?
4. How often is this data backup process tested?

Software Downloads

Verifying Downloads

Verified By

YOU!

Installation &/or Modifications

Casino Management System

Surveillance

Hotel Shops

Hospitality

Ask Yourself

1. Are only authorized and approved systems being installed or modified and is it being verified to a checklist?

2. Are these actions being recorded, if so with Whom, When, Why and What was accomplished?

3. Are there instruction manuals or booklets that describes the system and how its maintained?

INSTALL

Incident Monitoring & Reporting

- Tracking & Referral
- Trending & Analysis

Reporting

- Outreach & Awareness
- Security Notification

Prevention

- Forensic Analysis
- Mitigation & Remediation

Response

Detection

- Infrastructure Security
- Antivirus

Ask Yourself

1. What are the policies and/or procedures for responding to, monitoring, investigating and resolving all security incidents that is approved by the TGRA?

2. What time period has been established with the TGRA for supporting documentation to be supplied?

Incident Monitoring & Reporting

INCIDENT REPORTING

Handout 5

Questions