Cyber-Security Presentation February 18, 2016

Objective is to Communicate UKIA Cyber-Security:

- 1. Definition
- 2. Risks
- 3. Services
- 4. Coverage
- 5. Program



Definition

- Cyber-Security
 - Evaluate the effectiveness of policies, practices and technologies utilized to protect the University of Kentucky's Information Systems infrastructure.
 - Logical Security
 - Physical Security
 - Disaster Recovery
 - Verify the compliance to applicable regulations.
 - Data Security
 - Privacy
 - Risk Management



Risks

Internal

Applications

- Appropriateness of Roles and Privileges
- Security Logging and Monitoring

Employees (IT or Administrator)

- Elevated Access
- Disgruntled

Passwords

- Weak
- Non-expiring

Mobile Devices

- Loss / Theft
- > Employee-owned Devices

Database / Network / Servers

- Firewall
- Data Classification and Segmentation

External

Third Party / Contractors

- Confidentiality Agreements
- Adequate Security

Hacking

- Network Penetration Attacks
- SQL Injection Attacks

Social Engineering

- Phishing (emails and websites)
- Information Gathering (social media)

Malware

- Email Attachments
- Websites Embedded with Malicious Software

Cloud

- Confidentiality Agreements
- Data Segmentation



UKIA Services





UKIA IT Audit Services

UKIA Service	UKIA IT Service	Risks Mitigated
(1) Assessments	Assessments	Application Evaluation and System Vulnerability
(2) Comprehensive Audits	Comprehensive Audits	Business Application Review and Data Security
(3) Consultations	Advisories / Consultations	Process Vulnerability and Risk Management
(4) Continuous Auditing	Data Analytics	Elevated System Privileges
(5) Information Technology	Application Controls	Unauthorized Access
	General Controls	Susceptibility to Intrusion and Disaster Recovery
	Regulatory Compliance	Noncompliance
(6) Presentations	Training / Seminars	Knowledge and Awareness



UKIA Coverage

Enterprise Divisions

- UK HealthCare
- > Campus
- > Affiliates
- UK Administration (Includes Athletics)
- > Academic Units
- > Finance and Administration



Cyber-Security Program

- ☐ Procedural Execution
 - ➤ Units / Departments
 - Data Centers
- Monitoring
 - ➤ Information Technology
 - Not just an IT Function
- □ Auditing
 - > Internal Audit
 - > Collaboration





To Support UK in its pursuit of excellence by providing advisory and assurance guidance to champion reasonable assurance regarding the achievement of management objectives.

