Cyber Incident Response Plan and Implementation Checklist

Preparation

	develope o o o o o	rmine who are the stakeholders in the municipality that need to be involved with ment of the Incident Response Plan Organizational leadership IT & Information Security leadership Audit Finance Human Resources Communications Legal Counsel
П	1.2 Dete	rmine what decisions need to be made
	0	Obtain or clarify cyber liability insurance information and requirements How much coverage, what are the limits, what is the retention What is covered? Social engineering Ransomware Malware System restoration Legal and forensic costs Credit monitoring & call center costs Determine vendors needed and obtain contact information as well as a plan for engagement/procurement: Forensics Outside legal counsel Mitigation services such as credit monitoring and call center services Communications services
	1.3 Estal	olish the Incident Response Team (the "Team")
	0	Define Team Members
	0	Define Roles
	0	Establish contact list with alternative contact information
	0	Determine communications protocols – internal and external

incidents

☐ 1.4 Establish Goals for the Incident Response Plan (the "Plan")

o Establish definitions – data breach, security incident

o Establish criteria to assess the incident and threat level

Establish protocols for level of response – e.g. low-level v. high-level security

- Define the actions to be taken when an incident occurs, including notification to regulatory authorities
- Coordinate with third party service providers determine procurement requirements
- O Determine documentation efforts who is responsible for documenting the incident, actions taken, the process for documenting the incident
- o Communication with law enforcement
- o Mitigation implement processes to mitigate the effects of the incident
- o Prevention -- establish the Incident Response Team (the "Team")
- o Establish definitions data breach, security incident
- Assess the incident and threat level
- o Define the actions to be taken when an incident occurs
- o Restore --present an orderly course of action for restoring functionality
- Document collect and document the incident
- o Mitigation implement processes to mitigate the effects of the incident
- Define restoration efforts --present an orderly course of action for restoring functionality
- Prevention improve processes and procedures to help prevent the security incident from happening again
- o Education train and educate employees to prevent future security incidents
- Review Determine process for review including lessons learned, review of policies and procedures, assess technology and determine any proposed changes
- o Communicate specify how information should be communicated, who should communicate and how to communicate with municipal leadership
- ☐ 1.5 Compile key contact information:
 - o Forensic vendors
 - o Credit monitoring/call center/identity theft mitigation services vendors
 - o Outside legal counsel engage in three-way agreement with forensic vendor
 - Cyber insurance broker and insurance company contact information to report a breach/security incident
 - o Law enforcement officials, including state and federal officials
 - o Applicable regulatory body--such as the Office of the Attorney General
 - o Information sharing entities

Detection & Analysis

2.1 Review information received from the individual(s) reporting the security incident
2.2 Work with other departments and information technology staff, as appropriate, to
determine the risk of continuing operations (e.g. deciding whether to shut down system,
disconnect from network, continue operation, etc.); however, any decision to delay the
containment should be discussed with legal counsel based on the liability
2.3 Coordinate with incident response services of a third-party security firm and outside
legal counsel as appropriate
2.4 Implement processes to prevent alteration to the system(s) until a backup has been
completed

	2.5 Implement processes to change passwords or other security safeguards on any
	compromised systems 2.6 Maintain detailed documentation on all actions taken
	2.7 Determine risk level – low level v. high level risk
	2.8 Coordinate outside counsel
	2.9 Coordinate third party vendors2.10 Provide notification to insurance broker/company
	2.11 Coordinate responses to incident
	2.12 Communicate with affected employees & individuals
	2.13 Determine if it is a reportable data breach – If yes:
	 Determine notification requirements to regulatory authorities Determine states impacted
	Determine notification to law enforcement
	O Determine notification requirements to affected individuals
u	2.14 Coordinate incident response services of third-party vendors
Cor	ntainment, Eradication & Discovery
	4.1 Implement processes to prevent alteration to the system(s) until a backup has been
	completed
	4.2 Implement processes to perform a full backup of the system(s) to forensically sterilize media (i.e. disk imaging) and store the backup in a secure area as an important part of the
	chain of custody (as applicable)
	4.3 Work with other departments and information technology staff, as appropriate, in
	determining that containment is complete, determining additional measures to eradicate
	the risk and other measures necessary to confirm the incident has been contained; 4.4 Implement processes to change passwords or implement other security safeguards on
	any compromised system
	4.5 Maintain documentation on all actions taken
Pos	t-Incident Activity
1 03	t-including factivity
П	5.1 Assess damage and cost; assess the damage and estimate both the damage cost and
_	the cost of the containment efforts.
	5.2 Review response and update policies, procedures, plans and guidelines; plan and take
	preventative steps so the intrusion will not recur. 5.3 Consider whether a procedure or policy was not followed which may have led to the
_	intrusion.
	5.4 Determine whether additional user education is warranted.
	5.5 Was the incident response appropriate? How could it be improved?
u	5.6 Was every appropriate party informed in a timely manner?

	5.7 Were the incident response procedures followed appropriately? How can they be			
	improved?			
	5.8 Are all systems patched, systems locked down, passwords changed, anti-virus			
	updated, and appropriate procedures, guidelines and policies in place, etc.?			
	5.9 Have changes been made to prevent a new and similar incident?			
	6.0 Should any security measures be updated?			
	6.1 What lessons have been learned from this experience?			
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Maintenance & Going Forward				
	7.1 Determine who has responsibility for maintaining the Plan			
	7.2 Make sure the Plan is distributed as appropriate, within the municipality			
	7.3 Review Plan at least annually			
	7.4 Conduct tabletop exercises at least annually			
	7.5 Conduct regular staff, user and employee education and training in privacy and			
_	security			