

## **EXHIBIT E**

### **IT SECURITY CONTROLS**

If selected through this RFP process respondent shall provide an initial Security Controls Report in the form attached hereto prior to executing an agreement with LACERA. All subsequent Security Controls Reports that are required after this first report shall be performed and submitted annually. The questionnaires are to focus on security as it applies to the technologies impacting services provided in relation to the scope of work. If a control is found to be inadequate, respondent will develop a remediation plan within 30 days. Respondent will implement the plan and inform LACERA of the change within a mutually agreed upon and reasonable time.

The Security Controls Reports shall report in writing on the respondent's system(s) and the suitability of the design and operating effectiveness of controls, information functions, and/or processes applicable to the environment in which the respondent receives and maintains LACERA records, including the security requirements.

Respondent shall provide to LACERA, within 30 calendar days of the issuance of each Security Controls Report, a documented corrective action plan that addresses each audit finding or exception contained therein. The corrective action plan shall show in detail the required remedial action by respondent along with the implementation date(s) for each remedial action.

If respondent does not obtain an annual Security Controls Report, LACERA shall have the right to retain an independent audit firm to perform such an audit engagement for such a report. The audit will include the controls, information functions, and processes used or provided by respondent. Respondent agrees to allow the independent audit firm to access its facilities for purposes of conducting this audit engagement. They will provide the necessary support and cooperation to the independent audit firm.

The independent audit firm will be engaged by LACERA's legal department and subject to the same confidentiality requirements supported in this agreement, and any disclosure will be on a need-to-know basis only for the purpose of the Security Controls Report. LACERA will invoice respondent for the expense of the report(s) or deduct the cost from future payments to the respondent.

# IT Security Controls - LACERA Environment

Control Section	Control Name	Control Description	Control Validation Test/ Review Performed	Control Validation Results
<b>Access Control</b>	Access control policy	An access control policy shall be established, documented, and reviewed based on business and information security requirements.		
	Access to networks and network services	Users shall only be provided with access to the network and network services that they have been specifically authorized to use.		
	User registration and de-registration	A formal user registration and de-registration process shall be implemented to enable assignment of access rights.		
	User access provisioning	A formal user access provisioning process shall be implemented to assign or revoke access rights for all user types to all systems and services.		
	Review of user access rights	Asset owners shall review users' access rights at regular intervals.		
	Removal or adjustment of access rights	The access rights of all employees and external party users to information and information processing facilities shall be removed upon termination of their employment, contract, or agreement, or adjusted upon change.		
	Use of password information	Users shall be required to follow consultant's practices in the use of password information.		
	Secure log-on procedures	Where required by the access control policy, access to systems and applications shall be controlled by a secure log-on procedure.		
	Password management	Password management systems shall be interactive and shall ensure quality passwords.		
<b>Physical and Environmental Security</b>	Physical security perimeter	Security perimeters shall be defined and used to protect areas that contain either sensitive, critical information or information processing facilities.		
	Physical entry controls	Secure areas shall be protected by appropriate entry controls to ensure that only authorized personnel are allowed access.		
	Protecting against external and environmental threats	Physical protection against natural disasters, malicious attacks, or accidents shall be designed and applied.		

	Supporting utilities	Equipment shall be protected from power failures and other disruptions caused by failures in supporting utilities.		
	Equipment maintenance	Equipment shall be correctly maintained to ensure its continued availability and integrity.		
<b>Network Security Management</b>	Network controls	Networks shall be managed and controlled to protect information in systems and applications.		
	Security of network services	Security mechanisms, service levels, and management requirements of all network services shall be identified and included in network services agreements, whether these services are provided in-house or outsourced.		
	Information transfer policies and procedures	Formal transfer policies, procedures, and controls shall be in place to protect the transfer of information using all types of communication facilities.		
<b>Operational</b>	Documented operating procedures	Operating procedures shall be documented and made available to all users who need them.		
	Change management	Changes to consultant, business processes, information processing facilities and systems that affect information security shall be controlled.		
	Capacity management	The use of resources shall be monitored and tuned, and projections made of future capacity requirements to ensure the required system performance.		
	Controls against malware	Detection, prevention, and recovery controls to protect against malware shall be implemented, combined with appropriate user awareness.		
	Information backup	Backup copies of information, software, and system images shall be taken and tested regularly in accordance with an agreed backup policy.		
	Event logging	Event logs recording user activities, exceptions, faults, and information security events shall be produced, kept, and regularly reviewed.		
	Protection of log information	Logging facilities and log information shall be protected against tampering and unauthorized access.		
	Clock Synchronization	The clocks of all relevant information processing systems within an organization or security domain shall be synchronized to a single reference time source.		

	Management of technical vulnerabilities	Information about technical vulnerabilities of information systems being used shall be obtained in a timely fashion, consultant's exposure to such vulnerabilities evaluated and appropriate measures taken to address the associated risk.		
<b>Information Security Incident Management</b>	Responsibilities and procedures	Management responsibilities and procedures shall be established to ensure a quick, effective, and orderly response to information security incidents.		
	Reporting information security events	Information security events shall be reported through appropriate channels as quickly as possible.		
	Reporting information security weaknesses	Employees and contractors using consultant's information systems and services shall be required to note and report any observed or suspected information security weaknesses in systems or services.		
	Response to information security incidents	Information security incidents shall be responded to in accordance with the documented procedures.		
	Learning from information security incidents	Knowledge gained from analyzing and resolving information security incidents shall be used to reduce the likelihood or impact of future incidents.		

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