OFFICE OF CHIEF INFORMATION OFFICER Summary of the State Board of Education Agenda Items Consent Agenda April 16, 2020

OFFICE OF TECHNOLOGY AND STRATEGIC SERVICES

C. <u>Approval to begin the Administrative Procedures Act process: To revise Miss.</u> <u>Admin. Code 7-3:55-1, State Board Policy Chapter 55, Rule 55.1</u>

State Board Policy Chapter 55, Rule 55.1 will provide guidance to the MDE regarding its operational responsibilities as it relates to Data Governance, Security, and Privacy, and the role of the Office of Technology and Strategic Services (OTSS) in meeting those operational responsibilities. The proposed revision will further provide guidance to OTSS regarding its role is supporting Local Educational Agencies as they address their local Data Governance, Security, and Privacy responsibilities.

Recommendation: Approval

Back-up material attached

Chapter 55: Technology and Strategic Services

Rule 55.1 Technology and Strategic Services

- 1. The Office of Technology and Strategic Services (OTSS) is to ensure appropriate authorized access of IT resources and services, equipment and usage for the security and protection of information as assigned by State of Mississippi. These resources are provided to conduct and support state business and educational functions as required by law. OTSS provides security and controls to enhance efforts in providing confidentiality, integrity and availability to the departments within MDE as with student and personnel information in schools, public and nonpublic school districts governed by the State Board of Education. All information technology assets that are managed, operated, maintained, or in the custody or proprietorship of the agency and/or hosted by third parties on behalf of MDE must be utilized to ensure:
 - a. Appropriate Use
 - b. Availability
 - e. Accountability
 - d. Data Integrity
 - e. Privacy and Confidentiality

Employees and authorized users are required to adhere to the "Appropriate and Acceptable– Use Policy" that is published in the MDE Human Resource Employee Policy and Procedures– Manual and on the OTSS website. Users must read and acknowledge the policy as a– condition of being granted access to Office of Technology and Strategic Services' technologyassets during their tenure as an employee or authorized user. Users will be held responsible– for protection of all technology resources and information for which they are entrusted and– using them for their intended purposes.

The Office of Technology and Strategic Services Security Policy has been created as a directive of MS Information Technology Services as it applies in MS Code 25-53-1 to §25-53-25. Each agency must establish a framework to operate, develop, implement and apply appropriate security measures to protect and safeguard the agency and its users from forms of unauthorized access, malicious misuse, disclosure, modification or inadvertent compromise.

State board governed schools, public and non-public school districts are required to create a district wide Information Technology Security Policy. The policy will develop, implement and maintain district information technology resources that are managed, operated or in the custody or proprietorship of the district and/or MDE and/or hosted by third parties on behalf of the school district and/or MDE. The requirements and standards cannot be less than those established in the OTSS Information Technology Security Policy.

The more restrictive policy will take precedence in the event of a conflict between the agency's policy and the district's policy.

2. Information Technology Steering Committee (ITSC)

The Information Technology Steering Committee is established to be the coordinating body forthe agency and school districts technology resources and information security-related activities.— It is composed of appointed staff from the Office of Technology and Strategic Services and representatives appointed by the State Superintendent of Education and/or a Deputy–Superintendent of Education.

3. ITSC responsibilities include:

Assisting the Chief Information Officer (CIO) in developing, reviewing, and recommending technology resources and information security policies for the agency and all governed school districts by the board

Identifying and recommending industry best practices for technology asset usage and information security

Developing, reviewing, implementing and recommending federal and statewide standards, procedures and guidelines

Coordinating inter-departmental and school district professional and accurate communication and collaboration on technology usage, security issues and future access system changes-

Coordinating statewide information technology and security education and awareness to allgoverned school districts by the state board

Source: Federal Information Security Management Act of 2002 (FISMA), National Institute of Standards Technology (NIST), Federal Information Processing Standards 200 (FIPS) The Family Educational Rights and Privacy Act (FERPA) (20 U.S.C. §1232g; 34 CFR Part 99)-No Child Left Behind Act of 2001, The Individuals with Disabilities Education Improvement Act of 2004 (IDEA)34CFR 300.560 300.577, The U.S. Department of Agriculture — Use of Free and-Reduced Price Meal, Eligibility Information Nondiscrimination or Identification of Recipients, 42USC 1758 (b)(2)(C)(iii), Richard B Russell National School Lunch Act (42U.S.C. 1751 et seq.) The Child Nutrition Act of 1966 (42 U.S.C. 1771 et seq.), Miss. Code Ann. §37-1-3, 37-3-5, §37-151-9, §25-53-1 to §25-53-25 (Revised 4/2016)

- 1 Chapter 55: Information and Operational Technology
- 2 Rule 55.1 Office of Technology and Strategic Services
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4	The C	Office of	of Tec	hnolog	y and S	Strategio	c Services	(OTSS)) is to	support	the stra	tegic r	nissio	n ar	ıd
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5 vision of the State Board of Education (SBE). To accomplish the support of the strategic mission

6 and vision, OTSS will implement and support sound governance, a secure and stable

- 7 infrastructure, reliable systems and applications, and quality data controlled within the
- 8 Mississippi Department of Education (MDE). The MDE is committed to compliance with federal
- 9 and state laws regarding data security and privacy.
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- 1. The OTSS's broad, operational responsibilities, the SBE charges OTSS with:
 - a. Validating and managing data, documenting and managing data definitions, establishing and supporting workflow processes, and implementing and managing business rules established by Program Offices, state, and federal law for all data that is submitted to or collected by the MDE;
 - b. Managing all information technology resources, including physical, virtual, and cloud;
 - c. Ensuring the availability and integrity of systems and applications managed by the MDE;
 - d. Securing networks, systems, and data, including monitoring and mitigating against threats;
 - e. Granting access to information technology systems, applications, data, and reports to appropriate users;
 - f. Managing database and data flows, analyzing data, and generating reports;
- g. Adhering to information technology best practices, and state and/or federal
 mandates and guidelines regarding the collection, storage, and disclosure of
 personally identifiable information (PII) of students, educators, parents, and MDE
 personnel.
- The OTSS's specific responsibilities related to security, privacy, and governance, the
 SBE charges OTSS with:
 - a. Staffing OTSS leadership positions with specific security, privacy and governance responsibilities;
 b. Establishing and suggesting an economy wide data security privacy and governance
 - b. Establishing and supporting an agency-wide data governance program;
 - c. Developing and administering internal policies and procedures necessary to ensure security and privacy;
 - d. Providing mandatory security, privacy and governance training to all MDE personnel
 - e. Developing and ensuring compliance with policies and procedures necessary to monitor, manage and mitigate security and privacy risks;
- 43 f. Regularly reporting on the security and privacy posture and status of the MDE to
 44 the State Superintendent of Public Education;
- g. Sharing with public school districts information technology best practices, and
 state and/or federal mandates and guidelines regarding the collection, storage, and

47			disclosure of personally identifiable information (PII) of students, educators,
48 49			parents, and MDE personnel.
49 50	2	That	following terms shall have the meanings ascribed to them in this section unless the
50 51	5.		following terms shall have the meanings ascribed to them in this section unless the ext otherwise requires:
52			. "Authorized User" is a consumer of information technology and data that has
52 53		a	been entrusted access based on the principal of least privilege to perform a
53 54			function for the MDE.
54 55		h	"Building consensus" is the mediation of a conflict involving many parties.
55 56			
		С	requirements, functions, and interdependencies used to characterize system
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58 59		h	contingency requirements and priorities in the event of significant disruption.
		u	. "Change Management" is the process of regulating and approving changes to
60			hardware, firmware, software, and documentation throughout the development
61 62			and operational life cycle of an information system.
62 62		e	. "Data" is the raw un-synthesized facts and statistics collected for reference or
63		£	analysis. "Data Staward" is the program office designed who is responsible for determining
64 65		f.	
65 66			how data are defined, collected, audited, and reported to meet the program office
66		_	and agency requirements.
67		g	
68			process to the attention of the person(s) who have the ability to direct a resolution
69 70		1.	path. "En antine Las denshin Team (ELT)" is the las denshin team around a fithe State
70		n	. "Executive Leadership Team (ELT)" is the leadership team composed of the State
71			Superintendent of Public Education and his/her division chiefs and designated
72			leaders.
73		i.	
74			decision-making and management of the MDE data assets to improve quality and
75 76			use, while enhancing security and privacy protections.
76		j.	
77			integrity, or availability of an information system or the information the system
78			processes, stores, or transmits or that constitutes a violation or imminent threat of
79		1_	violation of security policies, security procedures, or acceptable use policies.
80		K	. "Information" is the synthesized data that is a representation of knowledge useful
81		1	for analysis.
82		1.	
83			storing information or data.
84		n	n. "Local Education Agency (LEA)" are districts within the state that are governed
85			by the MDE.
86		n	. "Mitigation" is the action of reducing the severity, seriousness, or damaging
87			effects of risk or incident.
88		0	"The Principal of Least Privilege (POLP)" is providing access limited to the
89			minimum rights and permissions an authorized user requires to perform their
90 01			assigned function.
91 02		р	. "Personally, Identifiable Information (PII)" is the information or data that could
92			be combined to positively identify an individual (i.e. name, address, SSN)

02	q. "Risk" is a measure of the extent to which an entity is threatened by a potential
93 94	q. "Risk" is a measure of the extent to which an entity is threatened by a potential circumstance or event.
94 95	
96 07	processing, maintenance, use, sharing, dissemination, or disposition of information.
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99 100	MDE.
100	4. The OTSS leadership positions with specific security, privacy, and governance
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102	responsibilities:
103	a The MDE Chief Information Officer (CIO) will have leadership responsibility for
104	a. The MDE Chief Information Officer (CIO) will have leadership responsibility for
105	- and shall be dedicated to - the daily management and long-range vision and
106	strategies of OTSS. This employee shall be charged with the following
107	responsibilities, including but not limited to:
108	i. Ensuring OTSS' goals and strategies support and further the Goals of the
109	SBE Strategic Plan;
110	 Providing strategic leadership to the MDE's information technology and data endeavors;
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112	iii. Ensuring that OTSS is appropriately staffed with dedicated and qualified
113	professionals to achieve the Goals of the SBE Strategic Plan;
114 115	 iv. Establishing and maintaining project management and change management over the information technology and data of the MDE ;
115	v. Establishing and supporting data governance within the MDE;
110	vi. Serving as the signatory for all the MDE's purchases and contracts in
117	relation to information technology, operational technology, and data;
110	relation to information reciniology, operational technology, and data,
120	b. The OTSS Information Security and Data Privacy Officer (ISO) shall be charged
120	with the following responsibilities, including, but not limited to:
121	i. Ensuring the security, privacy, and governance of all data and information
122	within the MDE, by establishing agency-wide policies for sustaining,
123	enhancing, and protecting the privacy and confidentiality of the data;
125	ii. Working with the Data Governance Committee to improve and support
125	data security and privacy through the Data Governance Policy;
127	iii. Investigating and reporting any complaints of privacy violations, data
128	breaches and/or cyber-attacks under MDE's jurisdiction – as well as
129	coordinating with the appropriate authorities
130	iv. Identifying risks and threats to the MDE's information systems and assist
131	in remediation of these risks in coordination with OTSS;
132	v. Investigating and reporting issues of compliance – with this rule and with
133	other applicable data security and privacy laws – by the MDE;
134	vi. Monitoring and reporting on data privacy, security, and governance
135	training and compliance to the CIO and State Superintendent of Public
136	Education;
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138	c. The OTSS Data Governance Manager shall be charged with the following
139	responsibilities, including, but not limited to:
140	i. Facilitating and coordinating the development, implementation, and
141	maintenance of the MDE Data Governance Program to promote data
142	quality, availability, usability, security, and privacy;
143	ii. Supporting the Data Governance Committee chair, providing facilitation
144	for and coordination among data governance members and workgroups;
145	iii. Communicating with internal and external data governance stakeholders –
146	including building consensus, mediating disputes, escalating issues,
147	implementing resolutions, and anticipating agency data issues and needs;
148	iv. Coordinating with data stewards and business analysts to document and
149	analyze data processes and business rules – including engaging with
150	various stakeholders to ensure awareness, buy-in, and compliance with
151	data quality, security and privacy processes, and rules;
152	v. Coordinating the development and adoption of key data governance
153	artifacts - including data governance charter, guidelines, and a data
154	dictionary;
155	vi. Coordinating the development and adoption of key data policies (See
156	Section 6);
157	vii. Coordinating with the OTSS project managers to ensure that the
158	prioritized agenda and project plans for key data governance artifacts and
159	data policies are included in an agency-wide project portfolio.
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160 161	5. The OTSS shall establish and support the agency-wide Data Governance program. This
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161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179	 5. The OTSS shall establish and support the agency-wide Data Governance program. This program shall be charged with the following responsibilities: a. The MDE Data Governance program shall be implemented through the Data Governance Committee (DGC) comprised of members representing program offices across the MDE. The work of the DGC shall be authorized through the Data Governance Charter, as approved by the State Superintendent of Public Education. The DGC shall develop and promulgate processes, as well as rules and regulations governing the data that shall apply to all program offices within the MDE. b. The DGC shall establish policies and processes to ensure that data collected by the MDE are stored, maintained, and disseminated in a manner that protects the data integrity and security, as well as the privacy of individuals involved. This includes specifying which data may or may not be collected by the MDE, as well as oversight and responsibility for ensuring the accuracy and validity of the Data Dictionary. i. The MDE program offices shall provide proposed changes to data collection no later than 30 days after SINE DIE. Change requests

183		ii. The DGC shall review and vote on all proposed changes by or before the
184		September committee meeting.
185		iii. The DGC shall publish the Data Dictionary by December 1 st in
186		preparation for the upcoming school year.
187		iv. The DGC shall establish policies and processes to ensure that these annual
188		deadlines are met.
189		
190		c. The DGC shall prioritize and approve a set of internal policies, procedures,
191		standards, and guidelines – as well as a schedule for their development and
192		implementation – necessary to meet the security and privacy obligations of the
193		MDE.
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194 195	6	OTSS shall develop and maintain internal policies, procedures, standards, and guidelines
	0.	- approved by the DGC in accordance with the agency's data governance process – that
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197		are consistent with pertinent industry standards.
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199		a. Pertinent industry standards include
200		i. The National Institute of Standards and Technology's (NIST) current
201		Privacy Framework.
202		ii. NIST's current Cybersecurity Framework
203		iii. NIST's current SP 800-171 Protecting Controlled Unclassified
204		Information in Nonfederal Systems and Organizations
205		iv. NIST's current FIPS- 200 Minimum Security Requirements for Federal
206		Information and Information Systems
207		v. FedRAMP's current standards
208		
209		b. OTSS shall review on at least a biennial basis its internal policies, procedures,
210		standards, and guidelines to ensure consistent alignment with current industry
211		standards.
212		
213		c. To support LEAs, OTSS shall make available guidance, best practices, and
214		pertinent industry standards on the Information Security and Data Privacy section
215		of the MDE's website
216		
217		d. OTSS shall encourage LEAs to develop and implement internal policies,
218		procedures, standards, and guidelines consistent with pertinent industry standards.
219		
220	7	In the event that an LEA becomes aware of a cybersecurity risk or threat that may
221		potentially impact the MDE, the State Network Consortium, or other LEAs, the impacted
222		LEA shall notify the MDE ISO within 24 hours to ensure that the MDE is able to
223		properly mitigate and coordinate a response to the emerging risk or threat, including
223		notifying other LEAs.
224		nontying outer LEAS.
225	8.	The OTSS shall develop and support MDE staff compliance with all policies and
	0.	
227		procedures necessary to monitor, manage, and mitigate security and privacy risks.
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229	The CIO and ISO shall provide mandatory annual security and privacy training,
230	including, but not limited to, security awareness and FERPA Compliance to all MDE
231	employees.
232	
233	MDE employee access to the MDE information technology and data shall be dependent
234	upon their compliance with training completion and adherence to security and privacy
235	policies, procedures, standards, and guidelines. Those who fail to complete this training
236	or to adhere to the security and awareness program may be referred to ELT for
237	termination of systems and network access and may be subject to disciplinary action.
238	
239	The OTSS shall develop and ensure compliance with policies and procedures necessary
240	to monitor, manage and mitigate security and privacy risks.
241	
242	9. The CIO shall provide a quarterly report to the State Superintendent of Public Education
243	regarding the security and privacy posture and status of the MDE. This quarterly report
244	shall include at a minimum the following status on:
245	
246	a. Audits and Mitigation
247	b. Incidents
248	c. Training
249	d. Upgrades and Enhancements
250	
251	
252	Source: Miss. Code Ann. §§ 25-53-1 through 25-53-25, § 25-53-201, § 25-61-1 et seq., § 37-1-3,
253	§ 37-3-5, § 37-151-9, § 75-24-29 et seq., MS ITS Enterprise Security Policy Miss. Admin. Code
254	36: 1 et seq., Every Student Succeeds Act (ESSA), Individuals with Disabilities Education Act
255	(IDEA), Family Educational Rights and Privacy Act (FERPA), Richard B. Russell National
256	School Lunch Act (NSLA), Children's Online Privacy Protection Act (COPPA), Protection of
257	Pupil Rights Amendment (PPRA), Children's Internet Protection Act (CIPA), Federal
258	Information Security Management Act of 2002 (FISMA), National Institute of Standards
259	Technology (NIST), Federal Information Processing Standards 200 (FIPS)