

The Commonwealth of Massachusetts Auditor of the commonwealth

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No. 2008-0051-4T

OFFICE OF THE STATE AUDITOR'S REPORT ON THE EXAMINATION OF INFORMATION TECHNOLOGY PERTAINING TO BUSINESS CONTINUITY PLANNING FOR THE MASSACHUSETTS COMMISSION FOR THE BLIND

April 26, 2006 through October 31, 2008

OFFICIAL AUDIT REPORT DECEMBER 5, 2008

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2008-0051-4T INTRODUCTION

INTRODUCTION

The Massachusetts Commission for the Blind (MCB) was enabled under Chapter 6, Section 129, of the Massachusetts General Laws (MGL). The Commission's mission statement reads as follows:

The Massachusetts Commission for the Blind provides the highest quality rehabilitation and social services to blind individuals, leading to independence and full community participation. The commission accomplishes this critical mission by working in partnership with legally blind consumers, families, community agencies, health care providers, and employers.

The Commission strives to reach this goal by offering a number of services to the legally blind population of Massachusetts, including rehabilitation, social services, and vocational assistance. In addition to these services, MCB maintains a central database of information on the legally blind population of Massachusetts. MCB's main office is located in Boston, with satellite offices in Worcester, Malden, Springfield, and New Bedford.

In compliance with Chapter 6, Section 136, of MGL, all eye care providers who determine that an individual is legally blind must report this finding to the MCB within 30 days of the eye examination. After being entered into the central register, the MCB can offer the individual all of the services and benefits that they may need. Individuals who are deemed legally blind may request a Certificate of Legal Blindness from MCB to verify that they are registered with the Commission. A copy of the certificate is needed when applying for state and federal tax exemptions, automobile excise tax exemption, disabled plates and placard, and for other identification purposes. In addition, the information maintained in the register is essential to statistical research regarding the legally blind on both a state and national level. The MCB central electronic registration application, referred to as E-Reg, currently has over 30,500 legally blind persons on file in the state of Massachusetts.

The Commission's business operations are supported by a local area network (LAN) consisting of file servers and desktop computers. MCB's main office in Boston and the four satellite offices have a total of nine file servers and 185 desktop computers that support approximately 220 users. A portion of the computer equipment installed at the Commission's offices is specially designed for legally blind individuals. The Commission's primary application system is the E-Reg central registration for legally blind individuals. The Commission's LAN also provides access to the Commonwealth's wide area network, referred to as MAGNet, for access to statewide systems.

AUDIT SCOPE, OBJECTIVES, AND METHODOLOGY

Audit Scope

In accordance with Chapter 11, Section 12, of the Massachusetts General Laws, we performed an audit of selected information technology (IT) related controls regarding disaster recovery and business continuity planning at the Massachusetts Commission for the Blind (MCB). The audit, which was conducted from March 3, 2008 through October 31, 2008, covered the audit period of April 26, 2006 through October 31, 2008. The scope of our audit was to assess the extent to which MCB had addressed business continuity planning for business operations supported by technology and had in place adequate on-site and off-site storage of backup copies of magnetic media. Our audit included an assessment of the agency's capabilities to restore critical applications and related business processes and efforts to partner with the Information Technology Division's (ITD) for business continuity support.

Audit Objectives

We sought to evaluate whether an effective business continuity plan had been developed and that adequate resources would be available to provide reasonable assurance that mission-critical and essential business operations would be efficiently recovered should IT operations be rendered inoperable or inaccessible for an extended period of time. We determined whether the business continuity plan had been tested, reviewed, and approved to provide reasonable assurance of the plan's viability. In this regard, our objective was to also assess whether backup copies of electronic application systems and data files were being generated and stored at secure on-site and off-site locations.

Because MCB is dependent upon ITD's Massachusetts Information Technology Center (MITC) for application systems that support budgetary and human resources functions, we sought to determine whether MCB and ITD had collaborated on identifying IT recovery requirements and had developed appropriate business continuity plans. We sought to identify the degree of assistance provided by ITD to help MCB develop viable business continuity plans and to provide alternate processing and backup storage facilities and recovery plans to ensure timely restoration of MCB's data files and systems supported by MITC.

Audit Methodology

To determine the audit scope and objective, we conducted pre-audit work that included obtaining and recording an understanding of relevant operations as well as performing a preliminary review and documentation concerning business contingency and disaster recovery planning at MCB. We obtained a high-level understanding of the Commission's IT environment and identified mission-critical application systems. Upon completion of our pre-audit work, we determined the scope and objectives of the audit.

We interviewed senior management to obtain an understanding of their internal control environment, primary business functions, and stated controls. We obtained an understanding of the Commission's mission-critical functions and application systems by requesting, obtaining, and reviewing agency documentation, as well as interviewing business process owners for Contingency Planning and IT staff who support IT functions for the agency. Documentation was requested but not limited to the agency's plans for the continuation of agency operations, such as Continuity of Operations Plans (COOPs), Continuation of Government (COG), Business Continuity Plans (BCP), and Disaster Recovery Plans (DRP). We also interviewed ITD staff who were assigned business continuity planning responsibilities to determine the extent of DRP and BCP services provided to the MCB. In addition, we determined whether MCB was in compliance with Governor Patrick's Executive Order No. 490 issued September 26, 2007.

Our audit was conducted in accordance with Generally Accepted Government Auditing Standards (GAGAS) issued by the Comptroller General of the United States and generally accepted industry practices. Audit criteria used in the audit included Executive Orders 144, 475, and 490; management policies and procedures, and control guidelines outlined in Control Objectives for Information and Related Technology (CobiT version 4.1), as issued by the Information Systems Audit and Control Association, July 2007.

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AUDIT CONCLUSION

Regarding disaster recovery and business continuity planning at the Massachusetts Commission for the Blind (MCB), we determined that, although documentation of the strategies for recovering information technology (IT) capabilities needed to be strengthened, there is a reasonable likelihood that MCB could resume mission-critical business operations within an acceptable period of time. However, we determined that MCB's disaster recovery and business continuity plans needed to be expanded to address additional disaster scenarios and provide more instructions for the recovery of business operations. In addition, the recovery plans should be tested to the greatest extent possible to provide assurance of the plans' viability. Because of this, at the time of our review, MCB was not in compliance with Executive Order No. 490 that requires the annual training and exercises of all recovery plans. We believe that MCB could reduce the risk of not resuming business functions supported by technology within an acceptable time period by developing and approving more comprehensive recovery plans and ensuring that all staff having recovery responsibilities are adequately trained.

Although MCB has many documents containing various characteristics of a disaster recovery and business continuity plan, MCB does not presently have a tested formal disaster recovery plan (DRP). However, at the time of the audit, MCB had a continuity of operations plan (COOP) to support IT-related business operations. In addition, the Executive Office of Health and Human Services (EOHHS) has developed a continuation of government (COG) plan for the agencies within the executive office, which includes MCB.

Regarding the generation of backup copies, MCB transmits an ongoing replication on a daily basis, a mirror image, of application systems and data files residing on the Commission's servers to the alternate processing site. MCB also creates backup copies of critical applications once every two weeks on 25 magnetic tapes that are stored offsite securely in fireproof safes at the agency's satellite office. Off-site backup tapes aid recovery efforts should an event cause a loss of data on the file servers or on the on-site backup tapes.

MCB does not have any applications residing at the Massachusetts Information Technology Center (MITC). However, MCB is dependent on the Massachusetts Management Accounting and Reporting System (MMARS) and the Human Resources Compensation Management Systems (HR/CMS) for financial accounting and human resources management, which are both located at MITC. Although ITD performs an annual disaster recovery test at the out-of-state facility in New Jersey, Sungard, the recovery testing is limited to a portion of the application systems supported at the Massachusetts Information Technology Center (MITC). At the time of the audit, the state did not have an alternative processing

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facility owned by the Commonwealth for the systems operated at MITC. However, ITD was in the process of attempting to establish a second data center as an alternate processing and backup site in western Massachusetts.

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AUDIT RESULTS

Business Continuity Planning

Our audit revealed that the Massachusetts Commission for the Blind (MCB) has a business continuity plan (BCP) and high-level continuity of operations plan (COOP), and government plans (COG), in place. However, the Commission needs to develop a detailed disaster recovery plan as part of overall business continuity planning to ensure timely restoration of MCB's applications. In addition, MCB should work with the Information Technology Division (ITD) to develop the documented and approved disaster recovery plan (DRP). Since the DRP should address various scenarios that could render IT systems inoperable, each recovery strategy would include several steps or phases designed to recover IT capabilities and minimize the impact on the Commission's clients based on the scenario. Although MCB had a continuity of operations plan (COOP), the plan is a high-level documented strategy for executive planning. A BCP is more detailed and should encompass a DRP and user area plans.

We found that MCB had appropriate environmental protection controls in place over its IT environment. For example, MCB's server room in Boston, which contains nine servers, was well maintained and had fire detection and suppression equipment, backup air-conditioning, and an uninterruptible power supply. We also found that physical security controls were generally adequate over areas housing IT resources.

MCB has performed a risk assessment of their four application systems and determined that the E-Reg central registration system is the Commission's most critical and essential application. The Commission has determined that a 48-hour delay may be tolerated before the loss of IT resources becomes problematic; however, at that point all four applications become essential to MCB's business operations. The additional application systems are the AFS financial application system, the MA Client SQL server, and the Registry of Motor Vehicles' (RMV) crosscheck application. The AFS system is a legacy financial reporting system that is still in use only because of adaptability issues for blind and legally blind users with windows-based systems. The MA Client system is a Microsoft Access application that is linked to the Massachusetts Management Information System (MMIS) containing Health Insurance Portability and Accountability Act (HIPAA) related data regarding eligibility and prior approvals for blind consumers. The MCB also compares information within its database to RMV data and notifies the Registry to terminate the license of persons who are declared legally blind.

The application systems located at the Boston office support approximately 220 users throughout the state via one data communication line (MAGNet) with MITC, and LAN and WAN connectivity. There are approximately 185 desktop computers throughout the agency's offices statewide. Application and system backup is performed on 25 magnetic tapes once every two weeks and stored securely at the

agency's regional office in Malden, MA, while hard copies of daily information are kept on-site. Critical processing time periods consist of the ends of each quarter and tax preparation months (January to April). In the event of a major disaster, two critical employees would be relocated to regional offices in Worcester, Malden, Springfield, or New Bedford to continue administrative functions.

State agencies have been required to perform and document their planning efforts for the continuity of operations and government per executive orders of the governor. Between 1978 and 2007, Governors Dukakis, Romney, and Patrick issued three separate executive orders (see Appendices I, II, and III) requiring agencies of the Commonwealth to develop plans for the continuation of government services. In 1978, Executive Order No. 144 mandated that the head of each agency within the Commonwealth to "make appropriate plans for the protection of its personnel, equipment and supplies (including records and documents) against the effects of enemy attack or natural disaster, and for maintaining or providing services appropriate to the agency which maybe required on an emergency basis." In 2007 Executive Order No. 475 mandated "... Each secretariat and agency shall conduct activities on a quarterly basis that support the implementation of its Continuity of Government and Continuity of Operations plans and shall submit a quarterly report..." and "... Each secretariat and agency shall regularly, and in no event less than once per calendar year, conduct trainings and exercises to put into practice... Continuity of Operations plan..." In September 2007 Executive Order No. 490 mandated "Whereas, to achieve a maximum state of readiness, these plans should be incorporated into the daily operations of every secretariat and agency in the executive department, and should be reviewed on a regular basis and, with respect to agencies supplying services critical in times of emergency, exercised regularly; In addition, each critical secretariat and agency shall submit an annual report to the Executive Office of Public Safety and Security."

Business continuity plans should be tested to validate their viability and to reduce both the risk of errors and omissions as well as the time needed to restore computer operations. In addition, an effective recovery plan should provide specific instructions for various courses of action to address different types of disaster scenarios that would render IT systems inoperable. Specifically, the plan should identify how essential services would be provided for each scenario without the full use of the data processing facility, and the manner and order in which processing resources would be restored or replaced. Furthermore, the plan should identify the policies and procedures to be followed, including details of the logical order for restoring critical data processing functions, either at the original site or at an alternate site. The plan would also identify and explain the tasks and responsibilities necessary to transfer and safeguard backup magnetic copies of data files, program software, and system documentation from off-site storage to the site being used for restoration efforts.

Sound management practices, as well as industry and government standards, support the need for comprehensive and effective backup procedures and business continuity plans for organizations that depend on technology for information processing. Contingency planning should be viewed as a process to be incorporated within an organization, rather than as a project completed upon the drafting of a formal documented plan. Since the criticality of systems may change, a process should be in place that will identify a change in criticality and amend the contingency plans accordingly. System modifications, to IT equipment configurations, and user requirements should be assessed in terms of their impact to existing business continuity plans. (See Appendix IV for other criteria.)

Recommendation

We recommend that the Massachusetts Commission for the Blind strengthen its business continuity process by developing and maintaining appropriate recovery strategies to regain mission-critical and essential processing within acceptable time periods. We also recommend that MCB also develop and test in conjunction with ITD a more comprehensive and formal business continuity plan that incorporates a disaster recovery plan. MCB needs to ensure that the business continuity plan documents recovery strategies with respect to various disaster scenarios, and contains all pertinent information needed to effectively and efficiently recover critical operations within the needed time frames. In addition, MCB should develop user area plans to document contingencies and the steps to be followed to continue business operations to the extent possible should IT resources be unavailable. We recommend that all recovery and continuity planning documents should be available in hardcopy and electronic media and should be stored off-site in secure and accessible locations. As part of disaster recovery planning, MCB should test the viability of their alternate processing site. After the plan has been tested, MCB should document the results of the test and evaluate the scope and results of the tests performed.

MCB should specify the assigned responsibilities for maintaining the plans and supervising the implementation of the tasks documented in the plans. MCB should specify who should be trained in the implementation and execution of the plans under all emergency conditions and who will perform each required task to fully implement the plans. Furthermore, the completed business continuity and user area plans should be distributed to all appropriate staff members. We recommend that MCB's IT personnel be trained in their responsibilities for recovering business operations in the event of an emergency or disaster, including training on manual procedures to be used when processing is delayed for an extended period of time.

In conjunction with ITD, MCB should establish procedures to ensure that the criticality of systems is evaluated, business continuity requirements are assessed on an annual basis, or upon major changes to user requirements or the automated systems, and appropriate business continuity plans are developed for

the applications residing on MCB's regional servers and the servers at MITC. As part of business continuity planning, MCB should incorporate a strategy in which the Commission collaborates with the Division of Capital Asset Management in the event that an additional alternate processing site is needed to ensure the continuity of operations.

We recommend that the Commission follow Executive Order No. 490 for continuity of operations and business continuity planning. Included in this executive order are requirements for each secretariat and agency to conduct activities to support its Continuity of Government and Continuity of Operations plans. The executive order also requires agencies to conduct training and submit an annual report on the detailed plans to the Executive Office of Public Safety and Security. We also recommend that MCB continue working with ITD on business continuity and disaster recovery planning.

Auditee Response

In accordance with the recommendations in your report, MCB will be reviewing all policies and procedures, Internal Control documents and COOP and COG documents for purposes of updating the documents. MCB will also review ITD Recovery Documents and work to integrate Emergency Planning Documents into an organized Business Continuity Plan which fulfills the requirements of the Executive Orders listed in your report.

Auditor's Reply

Based on the Massachusetts Commission for the Blind's response, it appears that MCB has outlined a reasonable process for developing their business continuity and disaster recovery planning framework. We acknowledge that reviewing and updating the policies and procedures, internal control documents, COOP, COG, and the ITD recovery documents and emergency planning documents for an organized business continuity plan is a good first step toward addressing the requirements of the Executive Order No. 490. It should be noted that Executive Order No. 490 includes training and reporting components that would help an agency to keep its business continuity and recovery capabilities current. We encourage MCB to ensure that adequate resources are allocated to develop viable recovery and contingency strategies in a timely manner.

COMMONWEALTH OF MASSACHUSETTS By His Excellency MICHAEL S. DUKAKIS Governor

EXECUTIVE ORDER NO. 144

(Revoking and superseding Executive Order No. 25)

WHEREAS, it is the responsibility of the Commonwealth of Massachusetts to preserve the health and welfare of its citizens in the event of emergencies or disasters by insuring the effective deployment of services and resources; and

WHEREAS, such emergencies or disasters may result from enemy attack or by riot or other civil disturbances, or from earthquakes, hurricanes, tornados, floods, fires, and other natural causes; and

WHEREAS, the experience of recent years suggests the inevitability of natural disasters and the increasing capability of potential enemies of the United States to attack this Commonwealth and the United States in greater and ever-growing force; and

WHEREAS, the effects of such emergencies or disasters may be mitigated by effective planning and operations:

NOW, THEREFORE, I, Michael S. Dukakis, Governor of the Commonwealth, acting under the provisions of the Acts of 1950, Chapter 639, and in particular, Sections 4, 8, 16 and 20 thereof, as amended, and all other authority conferred upon me by law, do hereby issue this Order as a necessary preparatory step in advance of actual disaster or catastrophe and as part of the comprehensive plan and program for the Civil Defense of the Commonwealth.

- 1. The Secretary of Public Safety, through the State Civil Defense Director, shall act as State Coordinating Officer in the event of emergencies and natural disasters and shall be responsible for the coordination for all activities undertaken by the Commonwealth and its political subdivisions in response to the threat or occurrence of emergencies or natural disasters.
- 2. This coordination shall be carried out through and with the assistance of the Massachusetts Civil Defense Agency and Office of Emergency Preparedness, as provided under the Acts of 1950, Chapter 639, as amended.
- 3. Each secretariat, independent division, board, commission and authority of the Government of the Common wealth (hereinafter referred to as agencies) shall make appropriate plans for the protection of its personnel, equipment and supplies (including records and documents) against the effects of enemy

attack or natural disaster, and for maintaining or providing services appropriate to the agency which maybe required on an emergency basis.

Each agency shall make appropriate plans for carrying out such emergency responsibilities as may be assigned in this Order or by subsequent Order of the Governor and for rendering such additional emergency assistance as the Secretary of Public Safety and the Civil Defense Agency and Office of Emergency Preparedness may require.

- 4. The responsibility for such planning shall rest with the head of each agency, provided that such agency head may designate a competent person in the service of the agency to be and act as the Emergency Planning Officer of the Agency. It shall be the function of said Emergency Planning Officer to supervise and coordinate such planning by the agency, subject to the direction and control of the head of the agency, and in cooperation with the Secretary of Public Safety and the State Civil Defense Agency and Office of Emergency Preparedness.
- 5. Each agency designated as an Emergency Response Agency by the Director of Civil Defense shall assign a minimum of two persons to act as liaison officers between such agency and the Civil Defense Agency and Office of Emergency Preparedness for the purpose of coordinating resources, training, and operations within such agency.

To the extent that training and operational requirements dictate, the liaison officer shall be under the direction and authority of the State Civil Defense Director for such periods as may be required.

6. A Comprehensive Emergency Response Plan for the Commonwealth shall be promulgated and issued and shall constitute official guidance for operations for all agencies and political subdivisions of the Commonwealth in the event of an emergency or natural disaster.

Given at the Executive Chamber in Boston this 27th day of September in the Year of Our Lord, one thousand nine hundred and seventy-eight, and of the independence of the United States, the two hundredth and third.

MICHAEL S. DUKAKIS

Governor

Commonwealth of Massachusetts

PAUL GUZZI

Secretary of the Commonwealth

GOD SAVE THE COMMONWEALTH OF MASSACHUSETTS



MITT ROMNEY GOVERNOR

KERRY HEALEY

THE COMMONWEALTH OF MASSACHUSETTS

EXECUTIVE DEPARTMENT

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BY HIS EXCELLENCY

MITT ROMNEY GOVERNOR

EXECUTIVE ORDER NO. 475

Mandating Continuity of Government and Continuity of Operations Exercises within the Executive Department

WHEREAS, the security of the Commonwealth is dependent upon our ability to ensure continuity of government in the event of a terrorist attack, natural disaster, or other emergency;

WHEREAS, effective preparedness planning requires the identification of functions that must be performed during such an emergency, the assignment of responsibility for developing plans for performing those functions, and the assignment of responsibility for developing the capability to implement those plans;

WHEREAS, to accomplish these aims, the Governor directed each secretariat within the executive department to develop a Continuity of Government Plan identifying an official line of succession for vital positions; prioritizing essential functions which should continue under all circumstances; designating an alternate command site; and establishing procedures for safeguarding personnel and resources;

WHEREAS, the Governor also directed each secretariat and agency within the executive department to develop a Continuity of Operations Plan establishing emergency operating procedures; delegating specific emergency authority to key personnel; establishing reliable, interoperable communications; and providing for the safekeeping of critical systems, records, and databases;

WHEREAS, one hundred and two Continuity of Government and Continuity of Operations plans have been developed by the Office of the Governor and every secretariat and agency within the executive department;

WHEREAS, these Continuity of Government and Continuity of Operations plans have been submitted to and remain on file with the Massachusetts Emergency Management Agency and are ready to be put into operation in the event of a terrorist attack, natural disaster, or other emergency;

WHEREAS, to achieve a maximum state of readiness, these plans have been incorporated into the daily operations of every secretariat and agency in the executive department;

WHEREAS, each executive department agency with critical functions has exercised its Continuity of Operations plan and tested its alert and notification procedures, emergency operating procedures, and the interoperability of communications and information systems; and

WHEREAS, each secretariat has exercised its Continuity of Government plan, and tested its ability to prioritize and deliver essential functions, operate at an alternate facility, and implement succession plans and delegations of authority in an emergency; and

WHEREAS, these regular exercises will continue to ensure that vulnerabilities in the Continuity of Government and Continuity of Operations plans are identified, reviewed, and corrected, and will help to secure an effective response by each secretariat and agency in the event of a terrorist attack, natural disaster, or other emergency;

NOW, THEREFORE, I, Mitt Romney, Governor of the Commonwealth of Massachusetts, by virtue of the authority vested in me as Supreme Executive Magistrate, do hereby order as follows:

- Section 1: Each secretariat and agency within the executive department shall continue to consider emergency preparedness functions in the conduct of its regular operations, particularly those functions which would be essential in a time of emergency.
- Section 2: Each secretariat within the executive department shall conduct activities on a quarterly basis that support the implementation of its Continuity of Government and Continuity of Operations plans and shall submit a quarterly report to the Executive Office of Public Safety detailing the actions taken to implement these plans.
- Section 3: Each agency within the executive department shall conduct activities on a quarterly basis that support the implementation of its Continuity of Operations plan and shall submit a quarterly report to the Executive Office of Public Safety detailing the actions taken to implement such plan.
- Section 4: Each secretariat within the executive department shall regularly, and in no event less than once per calendar year, conduct trainings and exercises to put into practice its submitted Continuity of Government and Continuity of Operations plans.
- Section 5: Each agency within the executive department shall regularly, and in no event less than once per calendar year, conduct trainings and exercises to put into practice its submitted Continuity of Operations plan.

Section 6: These trainings and exercises shall be designed to simulate emergency situations which may arise, and shall be designed to test the effectiveness of the various components of the Continuity of Government and Continuity of Operations plans. These exercises must, at a minimum, include transfer of command functions to an emergency relocation site and the use of emergency communication systems.

Section 7: Each secretariat within the executive department shall incorporate findings from these trainings and exercises into its Continuity of Government and Continuity of Operations plans, and based on these findings, shall regularly, and in no event less than once per calendar year, update these plans. Likewise, each agency within the executive department shall incorporate findings from these trainings and exercises into its Continuity of Operations plan, and based on these findings, shall regularly, and in no event less than once per calendar year, update its Continuity of Operations plan. These plans shall be submitted to and remain on file with the Massachusetts Emergency Management Agency. In addition, the Executive Office for Administration and Finance shall submit a quarterly report to the Executive Office of Public Safety on the status of its review of executive department communication and information systems.

Section 8: The Executive Office of Public Safety shall submit an annual report to the Office of the Governor regarding the status of the Continuity of Government plan of each secretariat within the executive department, and the status of the Continuity of Operations plan of each secretariat and agency within the executive department.

Given at the Executive Chamber in Boston this 3rd day of January in the year of our Lord two thousand and seven and of the Independence of the United States, two hundred and thirty.

Mitt Romney, Governor Commonwealth of Massachusetts

William Francis Galvin

Secretary of the Commonwealth

GOD SAVE THE COMMONWEALTH OF MASSACHUSETTS



DEVAL L. PATRICK GOVERNOR

TIMOTHY P. MURRAY

THE COMMONWEALTH OF MASSACHUSETTS EXECUTIVE DEPARTMENT

STATE HOUSE • BOSTON 02133 (617) 725-4000

By His Excellency

DEVAL L. PATRICK GOVERNOR

EXECUTIVE ORDER NO.490

Mandating Preparation, Review, Updating, and Electronic Management of Continuity of Government and Continuity of Operations Plans

Revoking and Superseding Executive Order No. 475

WHEREAS, the security and well-being of the people of the Commonwealth depend on our ability to ensure continuity of government;

WHEREAS, effective preparedness planning requires the identification of functions that must be performed during an emergency and the assignment of responsibility for developing and implementing plans for performing those functions;

WHEREAS, to accomplish these aims each secretariat within the executive department was directed to develop a Continuity of Government plan identifying an official line of succession for vital positions, prioritizing essential functions, designating alternate command sites, and establishing procedures for safeguarding personnel and resources; and each secretariat and agency within the executive department was directed to develop a Continuity of Operations Plan establishing emergency operating procedures, delegating specific emergency authority to key personnel, establishing reliable, interoperable communications, and providing for the safekeeping of critical systems, records, and databases;



WHEREAS, Continuity of Government and Continuity of Operations plans have been developed by the Office of the Governor and every secretariat and agency within the executive department and all one hundred and two of these plans are currently stored in paper form at the Massachusetts Emergency Management Agency;

WHEREAS, to achieve a maximum state of readiness, these plans should be incorporated into the daily operations of every secretariat and agency in the executive department, and should be reviewed on a regular basis and, with respect to agencies supplying services critical in times of emergency, exercised regularly;

WHEREAS, to allow greater access to these plans, ensure their security and sustainability, and encourage more active participation and review by the secretariats and agencies, they should be maintained on a secure online database; and

WHEREAS, the Executive Office of Public Safety and Security and Massachusetts Emergency Management Agency are collaborating with the Information Technology Department to develop an online tool and database to maintain these Continuity of Government and Continuity of Operations plans;

NOW, THEREFORE, I, Deval L. Patrick, Governor of the Commonwealth of Massachusetts, by virtue of the authority vested in me by the Constitution, Part 2, c. 2, § I, Art. I, do hereby revoke Executive Order 475 and order as follows:

<u>Section 1</u>. Each secretariat and agency within the executive department shall continue to consider emergency preparedness functions in the conduct of its regular operations, particularly those functions which would be critical in a time of emergency.

Section 2. The Secretary of Public Safety and Security (hereinafter, "the Secretary"), in his discretion, shall designate secretariats and agencies as either critical or non-critical for the purpose of determining the detail, frequency of submission, and testing of Continuity of Government and Continuity of Operations plans.

Section 3. The Secretary shall notify all secretariats and agencies of the completion of the online Continuity of Operation / Continuity of Government tool and database (hereinafter, "the online tool"). Within 120 days of notification of completion of the online tool, each secretariat and agency shall submit, via the online tool, the appropriate Continuity of Government plan and/or Continuity of Operations plan based upon its critical or non-critical designation.

Section 4. If the Secretary designates a secretariat or agency as critical, then that secretariat or agency shall regularly, and in no event less than once per calendar year, conduct trainings and exercises to put into practice its submitted Continuity of Government and Continuity of Operations plans.

Section 5. These trainings and exercises shall be designed to simulate emergency situations which may arise, and shall be designed to test the effectiveness of the various components of the Continuity of Government and Continuity of Operations plans. These exercises must, at a minimum, include transfer of command functions to an emergency relocation site and the use of emergency communication systems.

Section 6. Each designated critical secretariat within the executive department shall incorporate findings from these trainings and exercises into its Continuity of Government and Continuity of Operations plans, and based on these findings, shall regularly, and in no event less than once per calendar year, update these plans using the online tool. Likewise, each designated critical agency within the executive department shall incorporate findings from these trainings and exercises into its Continuity of Operations plan, and based on these findings, shall regularly, and in no event less than once per calendar year, update its Continuity of Operations plan using the online tool. In addition, each critical secretariat and agency shall submit an annual report to the Executive Office of Public Safety and Security detailing the trainings and exercises conducted and the actions taken to incorporate the findings of such trainings and exercises into updated Continuity of Government and Continuity of Operations plans.

Section 7. Each non-critical agency within the executive department shall conduct activities on an annual basis that support the implementation of its Continuity of Operations plan, including but not limited to ensuring that the plan is current and viable, and shall regularly, and in no event less than once per calendar year, update these plans using the online tool. In addition, each non-critical agency shall submit an annual report to the Executive Office of Public Safety and Security detailing the actions taken to implement such plan.

Section 8. The Executive Office of Public Safety and Security shall submit an annual report to the Office of the Governor regarding the status of the Continuity of Government plan of each secretariat within the executive department, and the status of the Continuity of Operations plan of each secretariat and agency within the executive department.

<u>Section 9</u>. This Executive Office shall continue in effect until amended, superseded, or revoked by subsequent Executive Order.

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Given at the Executive Chamber in Boston this Aday of September in the year of our Lord two thousand and seven, and of the Independence of the United States of America two hundred and thirty-one.

ĐEVAL L. PATRICK

GOVERNOR

Commonwealth of Massachusetts

WILLIAM FRANCIS GALVIN
Secretary of the Commonwealth

GOD SAVE THE COMMONWEALTH OF MASSACHUSETTS

Continuity Planning Criteria

The goal of this document is to provide a guideline for planning and establishing a business continuity process to ensure necessary steps are taken to identify the impact of potential losses, maintain viable recovery strategies and plans, and ensure continuity of products/services through exercises, rehearsals, tests, training, and maintenance.

Continuity planning efforts will determine an organization's business readiness to recover from an emergency or interruption to normal business processing. These efforts require the creation and maintenance of a documented Business Continuity Plan (BCP) to ensure effective and efficient recovery and restoration of business functions or services – including paper documents, electronic data, technology components, and telecommunications recovery. The BCP must detail all processes, procedures, activities and responsibilities executed during a disaster, or emergency, or an interruption to the organization's products or services.

Our evaluation criteria is a compilation of the above Standards, Guidelines and Objectives developed by the following recognized organizations:

- Contingency Planning & Management (CP&M National Organization) http://www.contingencyplanning.com/
- DRII Disaster Recovery Institute International (DRII International Organization) http://www.drii.org/DRII
- IT Governance Institutes' Control **Objectives** for **Information** [related] **Technology** (COBiT); Control Objectives Document, Delivery & Support Section (DS4).
- Department of Homeland Security Continuity Of Operations Project Guidance documents (COOP).
- Presidential Decision Directive-67 (requires all Federal agencies to have viable COOP capabilities) and Comm. Of Mass. Executive Order No. <u>144</u> from Governor Michael S. Dukakis in 1978 (requires all state agencies to prepare for emergencies/disasters, and to provide liaisons to Massachusetts Emergency Management Agency for coordinating resources, training, testing and operations), and
- Comm. Of Mass. Executive Order No 475 from Governor Mitt Romney in 2007, and
- Comm. Of Mass. Executive Order No 490 from Governor Deval L. Patrick in 2007.

Our criteria is summarized in the following items:

- 1. Creation of a Business Continuity Plan and Business Continuity Team, comprised of a Business Continuity Manager (BCM), and alternate, for managing the Continuity Program (creation, modifications, updates, test exercises, etc.); Team Leaders, and alternates (from each business unit) to coordinate all continuity aspects for their particular areas of business.
- 2. Awareness Continuity Training should be given to all employees (minimum of twice annually).
- 3. Identification and prioritization of all critical/essential business functions (called Risk Analysis, and Business Impact Analysis). A Risk Analysis assigns a criticality level. A Business Impact Analysis identifies the Recovery Time Objective (RTO) when the applications/systems restoration is needed most important for critical/essential functions.

Analyses should be documented within the BCP. Executive Management must review and sign-off on: analyses, BCP, and test exercise results.

- 4. Offsite Storage Program protection of critical data, materials, or media. Document location address and contact name (during business and off hours). Identify authorized individual(s) to retrieve offsite data. Offsite access procedures.
- 5. Identify all resources to support critical business functions, alternate site, technology, software, applications, data, personnel, access, transportation, and vendors needed. Workload swaps, split operations, work at home, employee family (need) services.
- 6. Name(s) authorize to declare a disaster and execution of BCP, and establish. Command Center, Assembly/Holding Areas, Fire/Police/Rescue notification, Site Emergency Personnel (Fire Marshals, security, building evacuations, EMT).
- 7. Notification Lists and Procedures (employees, legal, Pub. Relations, support groups, vendors, clients).
- 8. Establish a strategy for communicating with all affected parties (release of approved and timely information, Senior manager, Officer-in-charge, Media, and company representative).
- 9. Document a plan for coordinating with interdependent departments (SLA).
- 10. Implement a plan to recover and restore agency's functions (for RTO, RPO) at least, yearly test exercises.
- 11. Document a plan for reestablishing normal business operations (back to original site).