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Standard Guide for Credentialing for Access to an Incident or Event Site¹

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INTRODUCTION

The purpose of the Standard Guide for Credentialing for Access to an Incident or Event Site (hereafter the guide) is to assist in the credentialing of personnel and the associated activities, which allows for access to an incident² or event site by State, Tribal, local, private sector, and nongovernmental organizations (NGOs). The credentials allowing scene access should be a verification of identity and (by the authority having jurisdiction [AHJ]) that the appropriate training, experience, and qualifications are in place. This guide does not provide any specifications regarding qualifications or training required for said credentials. However, it is recognized that credentialing is a part of resource management and that a credentialed individual is a specified resource.

1. Scope

1.1 The focus of this guide is on the development of guidelines for credentialing for access. The guide addresses the fundamental terms, criteria, references, definitions, and process model for implementation of credentialing or a credentialing program.

1.2 This guide explains and identifies actions and processes that can provide the foundation for consistent use and interoperability of credentialing for all entities.

1.3 This guide describes the activities involved in creating a credentialing framework, which may include a physical badge; however, it does not define the knowledge, skills, or abilities required to gain access to a site or event. This guide does not address a requirement for a physical badge as a prerequisite for a credential. A badge may be an accepted credential across jurisdictional lines and other credentials may be issues by the AHJ at the scene.

1.4 This guide reinforces the importance of controlling access to a site by individuals with the proper identification, qualification, and authorization, which supports effective management of deployed resources.

1.5 This guide relies on the existing rules, regulations, laws, and policies of the AHJ. Regulations identifying personal and

private information as public record may differ from a responder's home jurisdiction.

1.6 This guide utilizes the principles of the Data Management Association Guide to the Data Management Body of Knowledge (DAMA-DMBOK) in order to effectively control data and information assets and does not prescribe the use of technology-based solutions.

1.7 This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety, health, and environmental practices and determine the applicability of regulatory limitations prior to use.

1.8 This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.

2. Referenced Documents

- 2.1 DAMA International:³
- The DAMA Guide to the Data Management Body of Knowledge 2009

2.2 Federal Emergency Management Agency:
Guideline for the Credentialing of Personnel July 2011
National Response Framework⁴ January 2008
NIMS Guide 0002⁵ National Credentialing Definition and

Criteria, March 27, 2007

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² As defined in National Incident Management System (NIMS) 2008.

³ Available from DAMA international, http://www.dama.org/i4a/pages/ Index.cfm?pageid=3364.

⁴ Available from http://www.fema.gov/pdf/emergency/nrf/nrf-core.pdf.

⁵ Available from http://www.fema.gov/pdf/emergency/nims/ng_0002.pdf.

NIMS Guideline for the Credentialing of Personnel July 2011

2.3 Department of Homeland Security:

NIMS⁶ December, 2008

Homeland Security Presidential Directive (HSPD) 12⁷ Policy for a Common Identification Standard for Federal Employees and Contractors, August 27, 2004

2.4 NIST Standard:⁸

FIPS 201 Personal Identification Verification (PIV) of Federal Employees and Contractors and Associated Special Publications (SPs), March 2011

2.5 NFPA Standard:9

NFPA 1600 Standard on Disaster/Emergency Management and Business Continuity Programs, NFPA 2007

Note 1—Further information on these subjects can be found in Appendix X1.

3. Terminology

3.1 The following definitions are intended for use in this guide.

3.2 *Definitions:*

3.2.1 *affiliation*—the association of a non-credentialed individual or group of individuals under the supervision of an AHJ-compliant credentialed responder for the purpose of gaining access to accomplish a specific incident or event mission.

3.2.2 applicant—an individual applying for a credential.

3.2.3 *attribute*—a qualification, certification, authorization, or privilege of the credential holder.

3.2.4 Authority Having Jurisdiction (AHJ)—the organization, office, or individual responsible for enforcing the requirements of a code or standard or approving equipment, materials, an installation, or a procedure. (NFPA 1600) 3.2.5 credential—a credential is an attestation of the identity, qualification, and authorization of an individual to allow access to an incident or event site.

3.2.6 *credentialing*—the administrative process for validating the qualifications of personnel and assessing their background, for authorization and permitting/granting access to an incident (site or event). (NIMS Guide 0002)

3.2.7 *event*—a planned occurrence or large-scale gathering that requires planning, coordination, and support from the emergency management community, such as a National Special Security Event (NSSE) or the Superbowl.

3.2.8 *entity*—a governmental agency or jurisdiction, private or public company, partnership, nonprofit organization, or other organization that has disaster/emergency management and continuity of operations responsibilities. (NFPA 1600) 3.2.9 *incident*—an occurrence, natural or man-made, that requires a response to protect life or property. (NIMS 2008)

3.2.10 *issuer*—the organization that is issuing a credential to an applicant. Typically, this is an organization for which the applicant is working. (FIPS 201)

3.2.11 National Incident Management System (NIMS)—a set of principles that provides a systematic, proactive approach guiding government agencies at all levels, the private sector, and NGOs to work seamlessly to prepare for, prevent, respond to, recover from, and mitigate the effects of incidents, regardless of cause, size, location, or complexity, in order to reduce the loss of life or property and harm to the environment. (NIMS 2008)

3.2.12 Non-Governmental Organization (NGO)—an entity with an association that is based on the interests of its members, individuals, or institutions. It is not created by government, but it may work cooperatively with government. Such organizations serve a public purpose, not a private benefit. Examples of NGOs include faith-based charity organizations or organizations such as the American Red Cross. (NIMS 2008, NFR)

3.2.13 *scene*—the geographical area(s) of an incident with boundaries and access points. There may be multiple levels of a scene that may require multiple access points based upon security, risk, or other factors as defined by the AHJ where different levels of credentialing may be assigned.

3.2.14 *sponsor*—individual or entity endorsing the applicant to receive the credentials.

4. Significance and Use

4.1 There is currently no way to ensure consistency among all entities across the nation for access to an incident or event scene. This guide is intended to enable consistency in credentials with respect to verification of identity, qualifications, and deployment authorization (NIMS 0002).

4.2 This guide is intended to be used by any entity that manages and controls access to an incident scene to facilitate interoperability and ensure consistency.

5. A Framework for the Credentialing of Personnel

5.1 The framework is built upon credentialing principles and elements with an approach that should be established as the initial steps of credentialing activities. The following principles are recommended for consideration:

5.1.1 *Standards Based*—Consistent with applicable national standards or industry-accepted best practices.

5.1.2 *Interoperability*—Ability of systems, personnel, (standards) and equipment to provide and receive functionality, data, information, or services, or combinations thereof, to and from other systems, personnel, and equipment among both public and private agencies, departments, and other organizations in a manner enabling them to operate effectively together (NIMS 2008).

5.1.3 *Trust*—Confidence in the identity and qualifications of the individual, and confidence in the manner in which the credentials are validated at the scene.

⁶ Available from http://www.fema.gov/pdf/emergency/nims/NIMS_core.pdf.

⁷ Available from U.S. Government Printing Office Superintendent of Documents, 732 N. Capitol St., NW, Mail Stop: SDE, Washington, DC 20401, http:// www.access.gpo.gov.

⁸ Available from National Institute of Standards and Technology (NIST), 100 Bureau Dr., Stop 1070, Gaithersburg, MD 20899-1070, http://www.nist.gov.

⁹ Available from National Fire Protection Association (NFPA), 1 Batterymarch Park, Quincy, MA 02169-7471, http://www.nfpa.org/assets/files/dpf/nfpa1600.pdf.

5.1.4 *Physical and Cyber Security*—Use of best practices to protect the physical credential and associated data. Refer to the Data Security Management section of Appendix X3 for more information.

5.1.5 *Privacy*—To protect an individual's private information in accordance with applicable laws; for example, name, social security number, biometric records, medical records, or tribal enrollment.

5.1.6 *Transparency*—Policies are implemented in an open and understandable manner.

5.1.7 *Sustainability and Portability*—Capacity to maintain credentialing activities and to remain effective when the AHJ or the overall authority, or both, changes.

5.2 *Credentialing Program Elements*—The following credentialing program elements are recommended building blocks for a credentialing framework: planning, funding, implementation, agreements, information management, training and exercises, and audit process. For more information, refer to Appendix X4 – Sample Credentialing Plan Template.

5.2.1 *Planning*—Planning should consider the jurisdiction's strategy for credentialing as well as development of plans to address goals, objectives, and business rules. Planning should also establish roles and responsibilities and address the implementation process and supporting procedures.

5.2.2 Business Rules—The AHJ should detail how credentials will be granted, including to whom and through what authorization process. Rules must include a provision and plan to ensure private information is protected through the adherence to privacy laws and policies, information management, and protection processes. Business rules should include a process for verification of a person's identification, verification of attributes, and deployment authorization. Business rules should also be in place for access permissions (from least secure to most secure) at incident scenes requiring varying security perimeters. Additionally, rules should include a process for appeal and reciprocity across jurisdictional boundaries.

5.2.3 *Credential Elements*—Credentials can be anything used to identify that a person's identity, qualifications, and authorization have been validated, for example badges, arm bands, vest, clothing, index cards, or any combination of mechanisms. The following is a list of elements that may be considered to develop to verify identification, qualification, and authorization information:

(1) Photograph,

(2) Name (Last, First, Middle Initial),

(3) Organization Represented,

(4) Employee Affiliation,

(5) Organizational Affiliation,

(6) Expiration Date,

(7) Area for Circuit Chip/Contact Chip/Smart Chip,

(8) Date Issued,

(9) Header (such as State, local, Tribal, private sector, or NGO),

(10) Footer (such as Federal Emergency Response Official (FERO) Designation),

(11) Agency Seal Watermark,

(12) Agency Card Serial Number,

(13) Issuer Identification,

(14) Qualification Information,

(15) Authorization Information (to deploy),

(16) Signature,

(17) Agency-specific Text Area,

(18) Rank,

(19) PDF Bar Code,

(20) Color Coding for Employee Affiliation,

(21) Photo Border for Employee Affiliation,

(22) Agency-specific Data,

(23) Magnetic Strip,

(24) Return to "If Lost" Language,

(25) Physical Characteristics of Cardholder,

(26) Additional Language for Emergency Responder Officials,

(27) Standard Section 499, Title 18 Language,

(28) Linear 3 of 9 Bar Code, and

(29) Agency-specific Text.

Depending upon the credentialing solution based on the entity's credentialing plan, there may be specific requirements for data or placement. Refer to Appendix X2 for example credentials.

5.2.4 *Distribution*—This should include ways of maintaining control of credentials while distributing to the appropriate parties or responders. This process shall also account for lost, stolen, or revoked credentials, or combinations thereof.

5.2.5 *Timelines/Schedules*—These elements should detail any phased approach for implementation or maintenance of the credentialing program.

5.2.6 *Needs Assessment*—The needs assessment identifies and validates the target audience and requirements for the credentialing plan and process, including identification of those with a potential need for access, numbers and types of individuals in a given skill area, and the status of extant credentials in that area.

5.2.7 *Plans and Procedures*—The credentialing plan should include:

5.2.7.1 *Purpose*—Describe the reasoning for the development of a credentialing plan.

5.2.7.2 *Scope*—Applicability of the plan, the items for inclusion, and the intended audience.

5.2.7.3 *Definitions*—Specific definitions for key words used in the plan.

5.2.7.4 *Authorities*—Applicable legislation, regulations, directives, or policies, or combinations thereof, to create and implement the credentialing plan. For more detailed information about data protection, see Appendix X3.

5.2.7.5 *Governance*—Planning, supervision, and control of the credentialing process.

5.2.7.6 *Credentialing Principles*—State the over-arching guidance for the approach of the AHJ (see above).

5.2.7.7 *Approach*—A high-level description of how the entity structures its plan to credential different types and numbers of individuals, for example, emergency responders, other government agencies, elected officials, tribal leaders, media, and volunteers. This approach should be scalable to rapidly expand or contract to meet incident or event requirements.

5.2.7.8 *Implementation Process*—The activities included in the credentialing implementation process.

5.2.7.9 *Documentation*—Records kept by an entity to ensure the validity of an individual's credential.

5.2.8 *Pilot Program*—Prior to the implementation of credentialing activities, a pilot project should be conducted in order to test and evaluate an entity's activities. A pilot project has the added complexity of a requirements assessment, strategy development, technology evaluation selection, and initial implementation cycle that subsequent incremental projects may not have.

5.3 *Funding*—Funding for initiation and sustaining of a viable credentialing program should be identified prior to initiating a program. A line item in the jurisdiction's budget should be created and approved that supports the strategy, goals, objectives, and implementation of the program. Funding for current and future maintenance and sustainment activities should be included. The budget should address pilot or demonstration project costs if these initiatives would promote program support and sustainment.

5.3.1 *Initial Funding*—Funding should be identified to include startup costs associated with implementing a new credentialing program. Costs covering complete assessment of the credentialing activities and specifics pertaining to roll-out should be considered. The credentialing solution does not have to be capital intensive and does not have to be based on technology; it can be as simple as providing wristbands to those arriving on the scene.

5.3.2 Sustained Funding Source—As credentialing activities may be capital intensive, a sustained funding source should be locked in as part of the planning process to ensure that the activities can be sustained. The funding should be identified for any pilot, phases, or iterations, and through at least two additional cycles following the initial introduction of the credentials. The program should also include a cost accounting and tracking mechanism for all funding.

5.4 *Implementation*—Should provide targeted instructions for ensuring that the plan and program are successfully integrated into operations. The implementation plan may be divided into phases, sections, or subsets to allow for an incremental implementation of parts of the plan. The plan should include the process for:

5.4.1 *Request*—This activity applies to the initiation of a request by an applicant or sponsor for the issuance of a credential to the applicant and the validation of this request by the sponsor.

5.4.2 *Enrollment and Registration*—The goal of this activity is to verify that the claimed identity of the applicant and the entire set of identity source documents presented at the time of registration are valid. Background verification according to the entity's laws, policies, or processes should be conducted as a part of this process.

5.4.3 *Issuance*—This activity deals with the personalization of the credential and the issuance of the credential to the intended applicant. Credentials should be issued through a managed, coordinated system detailed in the implementation plan. Standardized requirements for issuers should be developed and promulgated to all authorized issuers. The process

and logistical and information support requirements for the issuance of credentials should be detailed for all issuers. The issuance process should delineate the required personnel and their separate and distinct roles, which may include:

5.4.3.1 Applicant—Individual applying for the credential.

5.4.3.2 *Sponsor*—Individual or entity endorsing the applicant to receive credential.

5.4.3.3 *Enrollment Official*—Individual enrolling the applicant's information into the issuance system. This position should not be held by the same person as the Issuance Officer/Entity.

5.4.3.4 *ID Validator/Adjudicator*—Individual or board verifying all information and resolving any issues/conflicts related to the applicant's information.

5.4.3.5 *Issuance Officer/Entity*—Individual or body physically issuing the credential to the sponsored and approved applicant. This position should not be held by the same person as the Enrollment Officer.

5.4.4 *Usage*—During this activity, the credential is used to authenticate the credential holder for access to an incident scene or other resource. Access authorization decisions are made after successful credential holder identification and authentication.

5.4.4.1 Different levels of access permissions/perimeters may be assigned or identified within an incident scene as determined by the incident command.

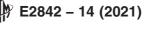
5.4.4.2 In the event of a lost, compromised, or falsified credential, termination or revocation of the credential may be required.

5.4.5 *Maintenance*—This activity delineates the currency process to include renewal, reissuance, or update of the credential. Refer to Data Security Management in Appendix X3 for more information.

5.4.6 Termination/Revocation—The termination/revocation process is used to permanently destroy or invalidate the credential and the data and keys needed for authentication so as to prevent any future use of the information for authentication. Ensure terminations/revocations are implemented on a timely basis to minimize any negative impacts to the scene and the AHJ. Policies and procedures for credentialing activities can include detailed steps on how to terminate or revoke a credential in the event of lost, compromised, or falsified credentials. Refer to Data Security Management in Appendix X4 for more information.

5.5 Agreements—Agreements should be established in advance of implementation of credentialing activities for access to an incident or event. Consider all partners that may require access to the incident or event site. Begin with a list of those partners typically involved in joint training and exercising events and then identify those that may be required for specific situations, hazards, or events. In developing agreements, share information regarding the credentialing program and processes with potential partners or stakeholders, or both.

5.6 *Information Management*—Information as it relates to credentialing comes in many forms of data, such as personnel qualifications, identification, and deployment authorization documents. The management of personnel data requires a method for acquiring, validating, storing, protecting, and



processing information, which can then be used to grant authorization for access to an incident scene or event site. Data management comprises all the disciplines or communities of practice, or both, related to managing information as a valuable resource as applicable to credentialing activities. The principles of data management (sometimes used interchangeably with information management), listed in the numbered list below, are relevant to manual as well as automated systems. Both entities with large, sophisticated, automated credentialing systems as well as entities with small, manual, procedurallybased credentialing systems should address data management. The following ten areas should be addressed as part of an information or data management process:

(1) Data Governance,

(2) Data Architecture Management,

(3) Data Development,

(4) Data Operations Management,

(5) Data Security Management,

(6) Reference and Master Data Management,

(7) Data Warehousing and Business Intelligence Management,

(8) Document and Content Management,

(9) Meta-data Management, and

(10) Data Quality Management.

Additional information on the ten elements of data management can be found in Appendix X3. The information in Appendix X3 is technical in nature and is intended for use primarily by technical or support personnel in the development of credentialing data, processes and systems in accordance with this guide.

5.7 Training and Exercises—The credentialing plan should include the baseline training requirements for each key person engaged in the credentialing activities, including distributing, utilizing, and recognizing valid credentials, and terminating/ revoking credentials. Personnel should be regularly trained on their respective credentialing activities. Exercises should be routinely conducted on the credentialing plan, policies, and procedures with improvements being made on exercise findings and evaluation. 5.8 *Audit Process*—The credentialing plan should include an audit process from an external source if possible.

5.9 *Contingency*—There should be some type of backup plan and procedures in place should there be any issue with interoperability or technology to credential onsite during disaster or event operations. The contingency should be scalable to rapidly expand or contract to meet incident or event requirements.

6. Access Control of Affiliates

6.1 Access Control is the process by which personnel and resources are granted entry into an established perimeter of an incident or event site, typically validated with an AHJ-compliant credential. Varying points of entry may be established based on the type of severity of the event. Plans should involve a phased approach for re-entry of displaced citizens and critical resources.

6.2 Affiliation is the process through which noncredentialed individuals or groups of individuals gain access to a controlled area under the supervision of AHJ-compliant credentialed personnel. Affiliated personnel may require specific, targeted access to an incident or event site to accomplish a stated mission. This process is applied when the volume of required credentials exceeds the capacity and efficiency of the credentialing system to issue individual credentials in a timely manner.

6.3 The AHJ-compliant sponsor should have documentation that verifies the affiliation of individuals. Documentation includes a list of individuals associated with an AHJ-compliant credential for verification of affiliation and should accompany the AHJ request for personnel and equipment needed to verify deployment authorization.

7. Keywords

7.1 attributes; credentials; emergency management; emergency site access; homeland security; identification

APPENDIXES

(Nonmandatory Information)

X1. CREDENTIALING REFERENCE/RESOURCE LIST

X1.1 Governor's Office of Administrative/Office for Information Technology, Identity Protection and Access Management (IPAM) Architectural Standard – Identity Management Services, Commonwealth of Pennsylvania, June 22, 2006. Available from URL: <u>www.portal.state.pa.us</u>.

X1.2 FIPS Publication (FIPS PUB 201-1); PIV of Federal Employees and Contractors, Department of Commerce, March 2006. Available from URL: <u>http://csrc.nist.gov/publications/fips/fips201-1/FIPS-201-1-chng1.pdf</u>.

X1.3 Memorandum (and Attachment) on the DoD Accep-

tance and Use of Personal Identity Verification – Interoperable (PIV-I) Credentials, Department of Defense, October 5, 2010.

X1.4 Best Practices: Incident Site Security, Perimeter Security, Credentialing, DHS. Available from URL: <u>http://www.llis.gov</u>. Access to LLIS will require user to follow prompts to register for LLIS.

X1.5 HSPD – 12: Policy for a Common Identification Standard for Federal Employees and Contractors, DHS, August 27, 2004.

X1.6 Moving Towards Credentialing Interoperability: Case Studies at the State, Local, and Regional Levels, DHS, July 2010. Available from URL: <u>http://www.dhs.gov/xlibrary/</u> assets/st-credentialing-interoperability.pdf.

X1.7 National Infrastructure Protection Plan, DHS 2009. Available from URL: <u>http://www.dhs.gov/xlibrary/assets/NIPP_Plan.pdf</u>.

X1.8 *National Response Framework*, DHS, January 2008. Available from URL: <u>http://www.fema.gov/emergency/nrf/</u>.

X1.9 Credentialing Project Overview, Eastern Colorado Incident Management Team, 2009.

X1.10 Continued Implementation of HSPD 12—Policy for a Common Identification Standard for Federal Employees and Contractors, Executive Office of the President, February 3, 2011.

X1.11 Implementation of HSPD 12—Policy for a Common Identification Standard for Federal Employees and Contractors, Executive Office of the President, August 5, 2005.

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X1.13 Federal Chief Information Officer Council, Personal Identity Verification Interoperability for Non-Federal Issuer, Federal Chief Information Officer Council, May 2009. Available from URL: <u>http://www.idmanagement.gov/documents/</u> <u>PIV_IO_NonFed_Issuers_May2009.pdf</u>.

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X1.15 National Emergency Responder Credentialing System, FEMA National Integration Center, October 24, 2005.

X1.16 Spring Forwards Federal and Mutual Aid Emergency Response Official Electronic Credentialing & Validation Interoperability Demonstration: After Action Report, FEMA, March 12, 2010. Available from URL: <u>http://www.llis.dhs.gov</u>.

X1.17 National Continuity Policy Implementation Plan, Homeland Security Council, August 2007. Available from URL: <u>http://www.fema.gov/pdf/about/org/ncp/ncpip.pdf</u>.

X1.18 Information Technology – Automatic Identification and Data Capture Techniques: PDF417 Bar Code Symbology Specifications (ISO/IEC 15438:2006), International Organization for Standardization, 2006. Available from URL: <u>http://</u> www.iso.org/iso/iso_catalogue_tc/catalogue_ detail.htm?csnumber=43816.

X1.19 Credentialing Program and Operating Guidelines and Procedures, North Central Region (Denver, Colorado), Version 1.0 Final. August 2010. X1.20 NFPA 1561, Standard on Emergency Services Incident Management System, NFPA, 2008. Available from URL: <u>http://www.nfpa.org/aboutthecodes/</u> AboutTheCodes.asp?DocNum=1561.

X1.21 NFPA 1600, Standard on Disaster/Emergency Management and Business Continuity Programs, NFPA, 2007. Available from URL: <u>http://www.nfpa.org/assets/files/pdf/nfpa1600.pdf</u>.

X1.22 National Institute of Standards and Technology. *NIST* Special Publication 800-116. A Recommendation for the Use of *PIV Credentials in Physical Control Systems (PACS)*. November 2008.

X1.23 FIPS PIV of Federal Employees and Contractors and Associated Special Publications (SPs), National Institute of Standards and Technology, March 2011.

X1.24 Federal Information Processing Standards Publication, 55-3, Codes for Named Populated Places, Primary County Divisions, and Other Locational Entities of the United States, Puerto Rico, and Outlying Areas, National Institute for Standards and Technology, December 28, 1994. Available from URL: <u>http://www.itl.nist.gov/fipspubs/fip55-3.htm</u>.

X1.25 Memorandum for Heads of Departments and Agencies Re: Final Credentialing Standards for Issuing Personal Identity Verification Cards Under HSPD-12, Office of Management and Budget, July 31, 2008. URL: <u>http://</u> www.hss.doe.gov/deppersonnelsec/guidance/Final Credentialing Standards for Issuing PIV Cards.pdf.

X1.26 Memorandum M-11-11 (OMB M-11-11), Continued Implementation of Homeland Security Presidential Directive (HSPD)-12, Executive Office of the President, February 3, 2011. Available from URL: <u>www.whitehouse.gov/sites/default/</u> files/omb/memorada/2011/m11-11.pdf.

X1.27 Colorado State First Responder Authentication Credential Standards: Best Practice Standard, State of Colorado, Governor's Office of Information Technology, April 10, 2010.

X1.28 The State of Colorado First Responder Authentication Credential (COFRAC); Business Process for Statewide Implementation of Standards and Credentials, State of Colorado, DRAFT.

X1.29 Standard Operating Procedure: Statewide Credentialing/Access Program, State of Louisiana. Available from URL: <u>http://www.gohsep.la.gov/plans/lscap.pdf</u>.

X1.30 *West Virginia Region III Credentialing Pilot*, West Virginia Division of Homeland Security and Emergency Management, November 18, 2009. Available from URL: <u>www.ullis.dhs.gov</u>.

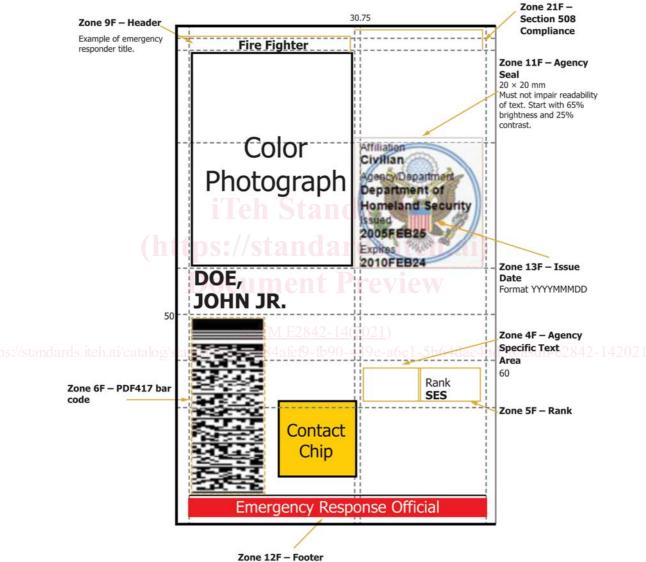
X1.31 *Presidential Policy Directive: PPD-8 National Preparedness*, The White House, March 30, 2011.



X2. CREDENTIAL COMPONENTS

X2.1 The graphics below were taken from the *Federal Information Processing Standards Publication 201-2, Personal Identity Verification (PIV) of Federal Employees and Contractors, DRAFT March 2011. (See Figs. X2.1-X2.5.)*

X2.2 Below are examples of credentials in addition to the traditional badge often used by the Federal government. (See Figs. X2.6-X2.13.)



(Emergency Response example shown) FIG. X2.1 Example 1