

DEPARTMENT OF THE INTERIOR
DEPARTMENTAL MANUAL

Museum Property Handbook
(411 DM, Volume I)

Chapter 11 Museum Property Security and Fire Protection

A. INTRODUCTION

Whether museum property is in storage or in transit, or whether it is exhibited in cases or in furnished rooms, protecting it against various risks poses problems. The general categories of threats to museum property (e.g., those hazards that can destroy, damage, or cause the loss of objects and specimens) are fire, crime (e.g., burglary and vandalism), improper environmental conditions, catastrophic events (e.g., natural and industrial disasters), and other events (e.g., transportation accidents and damage to objects and/or exhibits caused by staff carelessness or inattention).

In general, museum property security is the art of protecting museum property, information, equipment, physical facilities, visitors, and staff from harm. The primary objectives of a museum property protection program are as follows:

- ! To provide for the protection and safety of staff and visitors.
- ! To prevent the loss of museum property from all recognized threats.
- ! To protect the documentation (e.g., accession records, catalog records, conservation reports, photographs, and field data) on museum property.

Refer to Appendix I for a discussion of laws, regulations, DOI policies and requirements, and other DOI guidelines that relate to the protection of museum property.

1. Protecting Museum Property

Protecting museum property housed in administrative buildings, exhibit spaces, visitor and research centers, storage areas, and furnished historic structures requires special consideration. The following factors distinguish spaces housing museum property from other types of premises that require protection:

- a. such spaces house property that is recognized by the public to have unusual value (this value is

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interpreted as monetary value by thieves;

- b. such spaces may house a concentration of valuable objects;
 - c. a museum property collection may include unique, irreplaceable objects (e.g., George Washington's tent or plant type specimens); and,
 - d. museum property is often made accessible for public enjoyment in exhibits and through study and research.
2. Responsibility

Security is everyone's responsibility, whether permanent or seasonal employee or volunteer. It is important to keep in mind that protection of museum property collections is only one part of an overall security program. The curatorial staff needs to identify security deficiencies in spaces housing museum property. Curatorial staff should work closely with law enforcement and maintenance staffs, and as appropriate, with bureau specialists beyond the unit level, in initiating appropriate actions to correct deficiencies. Refer to Appendix I for additional sources of assistance. Good security depends ultimately on management's decision regarding the measures considered to be most effective and on its commitment to allocate staff and funds to take those measures.

B. THE SECURITY SURVEY

The National Institute of Law Enforcement and Criminal Justice describes the security survey as "a critical on-site examination and analysis of an industrial plant, business or home, public or private institution to ascertain the present security status; to identify deficiencies or excesses; to determine the protection needed; and to make recommendations

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to improve the security."¹ The primary role of a security survey is to assist a unit in identifying and removing or reducing threats against the unit's property.

While fire protection is often considered as a separate function from physical security, it is often more efficient to include fire protection in a security survey. Section E of this Chapter provides guidance on conducting a fire prevention survey.

A security survey of spaces housing museum property may be conducted as part of a total or partial security survey for a unit or as an independent study of only the facilities and spaces housing museum property. It examines operating procedures and physical measures for museum property collections security and makes recommendations for correcting any deficiencies noted. A survey nearly always results in a Security Survey Report being prepared and distributed to responsible management.

1. Basic Security Inspection

Staff can conduct an inspection of spaces housing museum property to identify security deficiencies. Access to the final report should be restricted. There are three steps to this inspection procedure.

a. Identify Nature of Museum Property

Describe and evaluate the nature and value of the museum property. Include the types of materials in the collections (e.g., paper or stone), the value of objects (e.g., monetary, research, and interpretation), and the most significant objects (e.g., letter signed by President Truman). Refer to

¹ The material used in these sections is similar to material published by John Hunter in the book Museum, Archive, and Library Security edited by Lawrence J. Fennelly (1983), Chapter 1, pp. 3-15. The material is derived from early manuscripts written by the John Hunter for use in the National Park Service.

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Chapter 3, Section D for guidance on determining the value of a unit's museum collection.

b. Identify Location of Museum Property

Identify the location(s) of the museum property collection (e.g., visitor center exhibit, administrative office, or storage), especially the most valuable, attractive, or vulnerable portions of the collection.

c. Inspection

Use the Departmental "Checklist for Documentation, Preservation and Protection of Museum Property" included in Appendix E to identify basic deficiencies in security and fire protection. Work closely with specialists in the fields of law enforcement, structural fire-fighting, and curation in conducting this basic inspection and for assistance in correcting deficiencies.

2. Comprehensive Security Survey

The results of the basic security inspection may indicate the need for a more extensive survey, the need for a new intrusion detection system, the need to establish better operating procedures, or the need to rehabilitate the existing system. Appendix I contains a comprehensive checklist that may be used in a detailed security survey of exhibit spaces, storage spaces, and furnished spaces in a historic structure. In most cases, this type of survey requires the assistance of an outside professional. The surveyor should possess specific experience in surveying, and awareness of the special requirements of, museum property.

a. Preparation of Security Survey Report

When the survey is complete, a survey report is written. This report details the security weaknesses and strengths found and makes recommendations for correcting any

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deficiencies. The report should present as many alternatives as possible for dealing with particular security deficiencies so that measures selected are within budget and are the most practical. For this reason, the report should include cost estimates for each recommendation. The surveyor may elect to recommend a package of countermeasures that corrects the greatest number of problems in the most cost-effective manner. In particular, the surveyor should point out those countermeasures that, if taken, would correct more than one security problem. Such countermeasures almost always are the most cost-effective.

b. Selection of Countermeasures

In many instances, the recommendations in a survey report can be implemented in stages. Those requiring no expenditures can be adopted first. Those requiring small costs can be adopted next. Those requiring major funds to correct should be programmed for future fiscal years. Refer to Chapter 14 for guidance on programming. In any event, the most serious threats should be countered first.

3. Risk Management

Risk management is often associated only with insurance coverage. However, risk management is much more than insurance. It also involves identifying, evaluating, and eliminating as many risks as possible by taking effective countermeasures.

The application of risk management techniques is vital to a successful cost-effective security program. Risk management demands a methodical appraisal of threats followed by the use of the most economical methods for dealing with those risks. First the threats are identified and measured through a security survey. Next, ways of dealing with the threats are considered. Whenever possible, threats should be eliminated. However, some threats cannot be eliminated. When that is

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the case, consider the possibility of reducing them. This approach is frequently found to be more cost-effective.

When some risks have been eliminated and other reduced, there are two strategies available for coping with the risks that remain: risk assumption and risk transfer.

! Risk Assumption means using existing resources to deal with meeting losses as and when they occur. For example, usually it is advisable to assume the risk of some forms of vandalism. Replacing a broken window pane is less expensive than hiring additional staff to keep it from being broken.

! Risk Transfer means that a known cost, such as an insurance premium, is substituted for the chance of a greater loss which may arise through risk assumption. Because the Federal Government does not insure its own property, risk transfer is not employed by the Department except in instances where borrowed property belonging to others is insured. Refer to the Departmental Museum Property Handbook, Volume II, Museum Records, Chapter 5, Section H, for guidance on insuring borrowed objects.

C. PHYSICAL SECURITY

1. Designing a Physical Security Program

A sound physical security program for DOI bureaus may be based on the concept of **crime prevention**. Crime prevention is defined as the anticipation, recognition, and appraisal of a crime risk and the initiation of activities to remove or reduce it. A physical security program seeks to remove or reduce crimes against all property (e.g., anything having monetary or intrinsic value) by reducing the opportunities for criminal activity. Appendix I gives additional references regarding physical security of museum collections.

A physical security program proceeds along four main

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lines: employee training, standards development, preventive planning, and correction of existing problems.

a. Employee Training

Training efforts are intended to make employees aware of the extent and causes of crime and security problems and to give them the skills needed to combat these problems. Training sessions for all employees should specifically address the unique concerns of museum property security. This training should emphasize the need for constant vigilance on the part of all unit staff to guard against theft, vandalism, and fire. Emphasis needs to be placed on reporting procedures, prompt reporting of missing objects, unusual incidents, disturbances, or suspicious conduct. Training also should include the steps for response to fire, including the use of hand-held fire extinguishers and personnel to call.

b. Standards Development

Bureaus should ensure that standards that deal with such matters as intrusion and fire detection devices, door and window assemblies, locking devices, and equipment for law enforcement personnel and patrol vehicles are in place. Bureaus may choose to adopt existing professional standards developed and published by Underwriters Laboratories, the National Fire Protection Association, and the Law Enforcement Standards Laboratory and the Fire Research Center, both of the National Institute for Standards and Technology.

c. Preventive Planning

Preventive planning consists of two parts. The first is an effort to "design out" security problems during the planning stages of a project. The second involves writing and instituting a Crime Prevention and Physical Security Plan for each unit and office.

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1) **Designing Out Problems**

This part requires the cooperation of architects, engineers, exhibit designers, historic preservation specialists, curatorial staff, interpreters, maintenance personnel, museum property specialists and curators, and others who are involved in various ways during the planning process. Designing out potential problems should take place whether the plans are for a new exhibit in an existing public contact area; for new museum property storage area; or for an historic structure that is to be used adaptively for offices, quarters, or other unit functions. In the initial stages of the planning process, requirements should be established for the level of security needed, based on the nature and value of the structure and its contents. At all subsequent stages, the plans should be reviewed to ensure that these requirements will, in fact, be met in the finished product.

If potential problems are found during this review, written comments and suggestions for corrective action can be prepared for submission to the designer. Decisions made at all levels should be documented.

2) **Crime Prevention and Physical Security Plans**

All plans should have the following common elements:

! leadership by and participation of management in the development and operation of the security program;

! regular security surveys by qualified

personnel

and a provision for corrective actions to be taken in response to the results of the

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surveys;

! the orientation and training of all employees (permanent, temporary, seasonal, and volunteers) in security awareness, with emphasis on proper attitudes and defining each employee's security responsibilities;

! an appropriate level of security for all unit property, including museum property, capital equipment, supplies, buildings, money, firearms, and historic sites, monuments, and ruins; and,

! a regular review and analysis of the unit's crime and security problems followed by the addition of appropriate preventive measures and necessary changes to the unit's Plan.

d. Correction of Existing Problems

Correction of museum security problems is based on a security survey. Refer to Section B of this Chapter for guidance on security surveys. Survey reports may recommend a number of approaches to correcting identified deficiencies including, but not limited to, changes in operating procedures, structural modifications to a building, installation of intrusion or fire detection systems, or creation of an emergency operating plan for protection of unit resources in case of a disaster.

D. CORRECTIVE ACTIONS TO ENSURE MUSEUM SECURITY

There are several simple actions that a bureau should take to provide for its museum property collections. Together, they constitute the most basic level of museum property security. These actions are outlined in the "Checklist for the Documentation, Preservation and Protection of Museum Property" in Appendix E and in the "Museum Property Security Survey Checklist" in Appendix I.

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E. FIRE PROTECTION

Fire can cause the most devastating damage to museum property. Stolen and damaged objects can be recovered and stabilized; however, an object subjected to a fire may be lost forever. Fire also is one of the most likely disasters to occur. Human carelessness and congestion in facilities increases the threat of a fire.

Protecting museum property collections from fire involves protecting the structure that houses the collection. Bureau policies provide the authority, policy, and procedural guidance for establishing a structural fire program to prevent the loss of human life and to prevent damage or destruction to facilities, equipment, and cultural and natural resources. These policies provide the framework for developing a fire protection program specifically for museum property collections. Fire protection concerns for museum property in storage and exhibit spaces should be addressed in the overall fire protection program.

Fire protection includes the following three elements:

! PREVENTION

! DETECTION

! SUPPRESSION

1. Fire Prevention

Fire prevention should be practiced on a regular basis by all staff. The discussion that follows provides elements of a good fire prevention program.

! Periodic inspection and maintenance of electrical wiring for defective components, improper installation, and overloaded circuits.

! Periodic inspection and maintenance of heating and cooling (HVAC) systems.

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- ! Maintaining well-organized storage and work spaces.
- ! Storing all flammable materials in approved containers outside the space housing museum collections.
- ! Keeping fire exit routes open and clear.
- ! Consulting with the unit's structural fire specialist, and, if necessary, the local fire department to request advice and to acquaint fire fighting personnel with the museum property collection and its special needs.
- ! Enforcing a no smoking policy in spaces housing museum property. Evaluate and control other ignition sources (e.g., candles or working fireplaces in an historic structure). All risks should be evaluated and specific protective measures taken.
- ! Requesting that a fire safety inspection be conducted of spaces housing museum property. The National Fire Protection Association's standard NFPA 911, Protection of Museums and Museum Collections and standard NFPA 913, Protection of Historic Structures and Sites contain fire safety self-inspection form for museums and historic structures that are useful in conducting the inspection.
- ! Training all staff in the location and operation of fire extinguishers. Training certain other staff in the location and operation of fire hoses, and other protective equipment and systems may be necessary. Regular retraining of staff is essential.
- ! Practicing good housekeeping in spaces housing museum property.

2. Fire Detection

In spite of a good fire prevention program, an early detection system is essential. The factors that may be used to determine the level of fire security include:

- ! significance and/or value of the museum property;

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! types of fire threats--consider the material makeup of the facility housing museum property, the nature of the museum property collection, proximity of facility to a fire fighting team; and,

! number of visitors and/or staff in the facility at one time. Can they exit rapidly? Can the fire be contained long enough for them to get out safely?

Fire can be detected in its earliest stage. A detection system must be in operation 24 hours a day. There are two types of detectors: smoke detectors and heat detectors. The advantage of a smoke detector is that it provides faster detection than a heat detector. However, it is more susceptible to false alarms, especially in attics and other spaces that are not well climate-controlled. Heat detectors are not as sensitive to false alarms as smoke detectors and are less expensive. Both types of detectors detect fires with different response times. Each should be installed by a specialist who understands air currents, fire characteristics, and NFPA requirements. The detectors should be tied into a system that sets off an alarm in the facility and at the fire station. Bureaus should work with qualified fire protection specialists to determine the types and placement of detectors necessary to protect the bureau's museum property.

3. Fire Suppression

A fire detection system is effective only if it is combined with a suppression system (e.g., fire extinguishers, hose and stand-pipe, response by fire fighting personnel, and an automatic sprinkler system). The key to fire suppression in spaces housing museum property is to ensure that the needs of the museum property collection are included in an overall structural fire plan.

The museum property element of the plan should address the following subjects:

! reliable remote transmission of fire alarms to a fire

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department or to a UL Certified central station alarm company;

! operation and maintenance of any automatic sprinkler systems;

! list of designated persons to respond to a fire and to call fire fighters;

and
! training all staff in the use of fire extinguishers in procedures to follow in the event of a fire; and,

! if there is time, and it is safe, a plan to remove important objects in the museum property collection to a pre-designated location that provides basic security.

a. Portable Fire Extinguishers

It is important that everyone know the first requirement in case of a fire: notify the fire department by means of telephone or manual alarm. Only after such notification has been given should attempts be made to extinguish the fire.

The proper use of portable fire extinguishers should be demonstrated and all staff should know where extinguishers are located in the building. They also should know what classes of fire extinguishers (three of the four classes are most commonly used) to use on different kinds of fires. The multi-purpose, dry chemical Class ABC extinguishers are most frequently found in public buildings. The use of "Purple K" dry chemical extinguishers in spaces housing museum property is not recommended. Ensure that all extinguishers are appropriate for the types of museum property in the area, and that they are inspected annually.

b. Sprinkler Systems

A sprinkler system consists of a network of overhead pipes with spaced outlets called "heads" that open at

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a predetermined temperature to discharge water onto the fire area. There are four basic types of systems and some variations, including the wet-pipe or dry-pipe system, preaction system, the cycling system, and the deluge system. The kind of system selected for a space housing museum property depends on a variety of factors, including the type of museum property to be protected, and the structure in which the system is to be installed. Deluge systems are not appropriate for areas housing museum property.

There is always concern about the accidental discharge of water in a sprinkler system. The record indicates that there have been many fires in spaces housing museum property and very few accidental discharges. Accidental discharges occur because of human error or improper maintenance to the system and are not inherent in the design of sprinkler systems. It is important that any area equipped with a sprinkler system also provide for drainage of run-off water.

c. Halon

Until recently Halon has been used in suppression systems and portable extinguishers. Halon is useful with certain museum property collections that may be damaged by water suppression systems. However, the Halon manufacturing process is damaging to the Earth's ozone layer, and Halon's production after 1996 has been specifically prohibited by international convention. Accordingly, the Department has a policy against any new installations of Halon. Refer to 485 Departmental Manual regarding adherence to NFPA guidelines.

While the fire suppression industry is experimenting with substitutes for Halon, no acceptable replacement has been found. Once the Halon in an existing system has been discharged through accident or in response to a fire, the unit may exercise one of two options. The Halon may be replaced in the existing system -- an option that will become increasingly expensive as

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supplies dwindle. The preferable alternative is to choose a different suppression agent, which may entail installation of a new system. Either alternative requires advance planning and programming so that funding is available to ensure that standards for protection of museum property are met.

F. MUSEUM RECORDS PROTECTION

1. Threats to Museum Records

In order to protect important unit museum records adequately, the potential threats to manual and automated museum documentation should be considered. What follows is a brief listing of common threats and suggested precautions:

<u>Threats</u>	<u>Preventive Action</u>
Human error	Training in proper techniques; checking work for accuracy
Fire	Insulated file media file; good fire prevention standards and fire detection and suppression devices
Theft	Locking insulated file; frequent inspection
Mildew and mold	Environmental monitoring; dehumidification if relative humidity exceeds 60%
Pests	Clean and tidy, frequent inspection; active Integrated Pest Management program in place, fumigation as necessary
Paper deterioration	High quality paper for museum forms (high rag content with alkaline buffer); all photocopies made on high rag content paper.

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b. Mixed Media

For storage of museum records on computer magnetic media (i.e., floppy disks or tapes), either an insulated mixed-media cabinet or a floppy disk drawer insert for an insulated file must be used. A media safe or file (Insulated Record Container) is designed expressly for the protection of plastic-based media, such as computer tapes and diskettes, photographic negatives and slides, video tape, and audio tape. In the event of fire, media safes keep the internal temperature below 125°F.

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