

(iv) Be accessible by individuals who have a business need for information in the system;

(v) Preserve the transmission and receipt data specified in agency instructions; and

(vi) Permit transfer of permanent records to the National Archives and Records Administration (see 36 CFR 1228.270 and 36 CFR 1234.32(a)).

(2) Agencies may elect to manage electronic mail records with very short-term NARA-approved retention periods (transitory records with a very short-term retention period of 180 days or less as provided by GRS 23, Item 7, or by a NARA-approved agency records schedule) on the electronic mail system itself, without the need to copy the record to a paper or electronic recordkeeping system, provided that:

(i) Users do not delete the messages before the expiration of the NARA-approved retention period, and

(ii) The system's automatic deletion rules ensure preservation of the records until the expiration of the NARA-approved retention period.

(3) Except for those electronic mail records within the scope of paragraph (b)(2) of this section:

(i) Agencies must not use an electronic mail system to store the recordkeeping copy of electronic mail messages identified as Federal records unless that system has all of the features specified in paragraph (b)(1) of this section.

(ii) If the electronic mail system is not designed to be a recordkeeping system, agencies must instruct staff on how to copy Federal records from the electronic mail system to a recordkeeping system.

(c) Agencies that maintain their electronic mail records electronically shall move or copy them to a separate electronic recordkeeping system unless their system has the features specified in paragraph (b)(1) of this section. Because they do not have the features specified in paragraph (b)(1) of this section, backup tapes should not be used for recordkeeping purposes. Agencies may retain records from electronic mail systems in an off-line electronic storage format (such as optical disk or magnetic tape) that meets the requirements described at 36 CFR 1234.30(a).

Agencies that retain permanent electronic mail records scheduled for transfer to the National Archives shall either store them in a format and on a medium that conforms to the requirements concerning transfer at 36 CFR 1228.188 or shall maintain the ability to convert the records to the required format and medium at the time transfer is scheduled.

(d) Agencies that maintain paper files as their recordkeeping systems shall print their electronic mail records and the related transmission and receipt data specified by the agency.

[60 FR 44641, Aug. 28, 1995, as amended at 66 FR 27028, May 16, 2001; 71 FR 8807, Feb. 21, 2006]

§ 1234.26 Judicial use of electronic records.

Electronic records may be admitted in evidence to Federal courts for use in court proceedings (Federal Rules of Evidence 803(8)) if trustworthiness is established by thoroughly documenting the recordkeeping system's operation and the controls imposed upon it. Agencies should implement the following procedures to enhance the legal admissibility of electronic records.

(a) Document that similar kinds of records generated and stored electronically are created by the same processes each time and have a standardized retrieval approach.

(b) Substantiate that security procedures prevent unauthorized addition, modification or deletion of a record and ensure system protection against such problems as power interruptions.

(c) Identify the electronic media on which records are stored throughout their life cycle, the maximum time span that records remain on each storage medium, and the NARA-approved disposition of all records.

(d) Coordinate all of the above with legal counsel and senior IRM and records management staff.

[55 FR 19218, May 8, 1990. Redesignated at 60 FR 44641, Aug. 28, 1995]

§ 1234.28 Security of electronic records.

Agencies shall implement and maintain an effective records security program that incorporates the following:

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(a) Ensures that only authorized personnel have access to electronic records.

(b) Provides for backup and recovery of records to protect against information loss.

(c) Ensures that appropriate agency personnel are trained to safeguard sensitive or classified electronic records.

(d) Minimizes the risk of unauthorized alteration or erasure of electronic records.

(e) Ensures that electronic records security is included in computer systems security plans prepared pursuant to the Computer Security Act of 1987 (40 U.S.C. 759 *note*).

[55 FR 19218, May 8, 1990. Redesignated at 60 FR 44641, Aug. 28, 1995]

§ 1234.30 Selection and maintenance of electronic records storage media.

(a) Agencies shall select appropriate media and systems for storing agency records throughout their life, which meet the following requirements:

(1) Permit easy retrieval in a timely fashion;

(2) Facilitate distinction between record and nonrecord material;

(3) Retain the records in a usable format until their authorized disposition date; and

(4) If the media contains permanent records and does not meet the requirements for transferring permanent records to NARA as outlined in § 1228.270 of this chapter, permit the migration of the permanent records at the time of transfer to a medium which does meet the requirements.

(b) The following factors shall be considered before selecting a storage medium or converting from one medium to another:

(1) The authorized life of the records, as determined during the scheduling process;

(2) The maintenance necessary to retain the records;

(3) The cost of storing and retrieving the records;

(4) The records density;

(5) The access time to retrieve stored records;

(6) The portability of the medium (that is, selecting a medium that will run on equipment offered by multiple manufacturers) and the ability to

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transfer the information from one medium to another (such as from optical disk to magnetic tape); and

(7) Whether the medium meets current applicable Federal Information Processing Standards.

(c) Agencies should avoid the use of floppy disks for the exclusive long-term storage of permanent or unscheduled electronic records.

(d) Agencies shall ensure that all authorized users can identify and retrieve information stored on diskettes, removable disks, or tapes by establishing or adopting procedures for external labeling.

(e) Agencies shall ensure that information is not lost because of changing technology or deterioration by converting storage media to provide compatibility with the agency's current hardware and software. Before conversion to a different medium, agencies must determine that the authorized disposition of the electronic records can be implemented after conversion.

(f) Agencies shall back up electronic records on a regular basis to safeguard against the loss of information due to equipment malfunctions or human error. Duplicate copies of permanent or unscheduled records shall be maintained in storage areas separate from the location of the records that have been copied.

(g) *Maintenance of magnetic computer tape.* (1) Agencies shall test magnetic computer tapes no more than 6 months prior to using them to store electronic records that are unscheduled or scheduled for permanent retention. This test should verify that the tape is free of permanent errors and in compliance with National Institute of Standards and Technology or industry standards.

(2) Agencies shall maintain the storage and test areas for computer magnetic tapes containing permanent and unscheduled records at the following temperatures and relative humidities:

Constant temperature—62 to 68°F.

Constant relative humidity—35% to 45%

(3) Agencies shall annually read a statistical sample of all reels of magnetic computer tape containing permanent and unscheduled records to identify any loss of data and to discover and correct the causes of data loss. In