



What's New in DOE Order 450.1A?



Synopsis

On June 4, 2008, the Deputy Secretary approved [DOE O 450.1A, Environmental Protection Program](#). DOE O 450.1A revises the previous DOE O 450.1 (issued in January 2003) to incorporate and implement the new requirements of:

- [Executive Order 13423, Strengthening Federal Environmental, Energy, and Transportation Management](#) (issued in January 2007), and
- [Instructions for Implementing E.O. 13423](#) (issued by the Council on Environmental Quality in March 2007).

A slide presentation (adaptable for DOE program and field office use and site-specific needs) is available at [What's New in DOE O 450.1A--Briefing](#).

BACKGROUND

EO 13423 requires the Department to implement sustainable practices (and establishes associated goals) for:

- energy efficiency, greenhouse gas emissions avoidance or reduction, and petroleum products use reduction
- renewable energy, including bio-energy
- water conservation
- acquisition (environmentally preferable purchasing)
- pollution and waste prevention and recycling
- reduction or elimination of acquisition and use of toxic or hazardous chemicals
- high performance construction, lease, operation, and maintenance of buildings
- vehicle fleet management
- electronic equipment management

E.O. 13423 requirements are addressed in both DOE O 450.1A and DOE O 430.2B. DOE Order 450.1A establishes environmental management system (EMS) requirements. It also establishes goals and addresses specific sustainable environmental practices for:

- environmentally preferable purchasing
- pollution prevention and waste reduction
- post-consumer material recycling
- toxic or hazardous chemicals use and release reduction
- life-cycle environmental management of electronic assets

DOE O 430.2B *Departmental Energy, Renewable Energy and Transportation Management* (revision issued February 2008) addresses specific sustainable energy and transportation goals and requirements for:

- energy efficiency, renewable energy
- fleet management
- water conservation
- sustainable design/high performance building

The Order also states that site EMSs include objectives and targets that contribute to achieving the sustainable energy and transportation goals established in this Order. [§ 4.1.]

NEW REQUIREMENTS FOR EMSs

There are 4 new requirements for EMSs as follows:

- EMSs are to “reflect the EMS elements and framework found in ISO 14001:2004” [§4.b.(1)], and serve as the primary management approach for addressing the environmental aspects of

agency operations and activities, including energy and transportation functions [§4.c.].

- EMSs shall include specified compliance management elements, including an environmental compliance audit program that identifies compliance needs and possible root causes of non-compliance. A separate Compliance Management Plan *is not* required. [§4.b.(4)]
- EMSs shall include site-specific goals and targets that contribute to the achievement of DOE Sustainable Environmental Stewardship goals and energy and transportation goals. [§5.d.(8)]
- Each EMS must have “a formal audit by a qualified party outside the control or scope of the EMS”
 - before declaring initial implementation of the EMS [§4.d.(1)-(2)]
 - every three years [§4.d.(3)]

NEW DATES AND DEADLINES

DOE managers are to declare DOE EMSs in conformance with the new requirements by June 30, 2009. The declaration must reflect a formal EMS audit conducted within the previous three years “by a qualified party outside the scope of the EMS.” [§ 4.d.(2); 5.c.(1); 5.d.(1)]

Where DOE determines that a new EMS is needed for a (new or reorganized) facility/organization, DOE will establish the date for implementation in consultation with the Federal Environmental Executive. [§ 5.d.(6)]

DOE PROGRAM AND FIELD OFFICES INTEGRATED SAFETY MANAGEMENT SYSTEMS

DOE Program and Field Offices are to incorporate specified EMS elements into their Integrated Safety Management (ISM) Systems to support the following at site(s) under their purview:

- compliance with applicable environmental protection requirements [§4.e.(1)]
- achievement of the DOE Sustainable Environmental Stewardship goals in DOE 450.1A

and the energy and transportation goals in DOE O 430.2B [§4.e.(2)]

DOE Program and Field Offices are to address as part of their annual ISM effectiveness review under DOE M 450.4-1, incorporation of specified EMS elements into their ISM systems and implementation of their responsibilities under DOE O 450.1A. [§5.d.(2); 5.c.(2)]

DOE O 450.1A *does not* require DOE program and field offices to implement EMSs; it does require them to include the elements above in their ISM system. [§5.d.(2),(8) §5.c.(2),(4),(5)]

DOE O 450.1A *does not* require DOE program and field offices to create a separate Compliance Management Plan; it does require them to incorporate specified compliance management elements in their ISM system. [§5.c.(1); 5.d.(1)]

The Office of Environmental Policy and Assistance establishes environmental protection policy for DOE, and provides assistance to DOE elements on implementation of policy and resolution of compliance matters. Please refer any questions and requests for assistance concerning the subject material covered in this Information Notice to:

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