

**ADMINISTRATIVE CHANGE TO
DOE O 433.1B, MAINTENANCE MANAGEMENT PROGRAM FOR DOE NUCLEAR FACILITIES**

Locations of Changes:

Page	Paragraph	Changed	To
2	3.(2)	<u>Exemption</u> . Radiological facilities (e.g., facilities with quantities of hazardous radioactive materials which fall below the hazard category 3 threshold per DOE Standard 1027-92, <i>Hazard Categorization and Accident Analysis Techniques for Compliance with DOE Order 5480.23, Nuclear Safety Analysis Reports</i>) are excluded from the provisions of this Order; however, the maintenance management program requirements of DOE O 430.1B, <i>Real Property Asset Management</i> , are applicable to radiological facilities. Radiological facilities that warrant additional controls may apply appropriate requirements of this Order until further guidance is issued.	<u>Exemption</u> . Radiological facilities (e.g., facilities with quantities of hazardous radioactive materials which fall below the hazard category 3 threshold per DOE Standard 1027-92, <i>Hazard Categorization and Accident Analysis Techniques for Compliance with DOE Order 5480.23, Nuclear Safety Analysis Reports</i>) are excluded from the provisions of this Order; however, the maintenance management program requirements of DOE O 430.1B Chg 2, <i>Real Property Asset Management</i> , are applicable to radiological facilities. Radiological facilities that warrant additional controls may apply appropriate requirements of this Order until further guidance is issued.
2	4.	REQUIREMENTS. DOE G 433.1-1, <i>Nuclear Facility Maintenance Management Program Guide for Use with DOE O 433.1</i> , provides acceptable approaches for meeting the requirements of this Order. DOE G 433.1-1 references Federal regulations, DOE directives, and industry best practices using a graded approach regarding implementation of requirements for maintaining DOE-owned Government property. Graded approach is defined in 10 CFR 830.3 and guidance for applying it is provided in DOE G 433.1-1.	REQUIREMENTS. DOE G 433.1-1A, <i>Nuclear Facility Maintenance Management Program Guide for Use with DOE O 433.1</i> , provides acceptable approaches for meeting the requirements of this Order. DOE G 433.1-1A references Federal regulations, DOE directives, and industry best practices using a graded approach regarding implementation of requirements for maintaining DOE-owned Government property. Graded approach is defined in 10 CFR 830.3 and guidance for applying it is provided in DOE G 433.1-1A.

Page	Paragraph	Changed	To
3	4.d.	Assessments of NMMP implementation must be conducted, at least every three years or less frequent if directed by the SO in accordance with DOE O 226.1A, <i>Implementation of Department of Energy Oversight Policy</i> , to evaluate whether all CRD requirements are appropriately implemented.	Assessments of NMMP implementation must be conducted, at least every three years or less frequent if directed by the SO in accordance with DOE O 226.1B, <i>Implementation of Department of Energy Oversight Policy</i> , to evaluate whether all CRD requirements are appropriately implemented.
3	4.e.	Periodic self assessments in accordance with DOE O 226.1A must be conducted to evaluate the effectiveness of oversight of NMMPs.	Periodic self assessments in accordance with DOE O 226.1B must be conducted to evaluate the effectiveness of oversight of NMMPs.
3	4.f.	A single maintenance program may be used to address the requirements of this Order and the requirements of DOE O 430.1B, <i>Real Property Asset Management</i> .	A single maintenance program may be used to address the requirements of this Order and the requirements of DOE O 430.1B Chg 2, <i>Real Property Asset Management</i> .
4	b.(5)	Plans and conducts assessments to determine compliance with the requirements of this Order, in accordance with DOE O 470.2B, <i>Independent Oversight and Performance Assurance Program</i> .	Plans and conducts assessments to determine compliance with the requirements of this Order, in accordance with DOE O 227.1, <i>Independent Oversight Program</i>
5	d.(7)	Conduct comprehensive self assessments and assessments of contractor maintenance management programs as specified in paragraph 4 above and in accordance with DOE O 226.1A	Conduct comprehensive self assessments and assessments of contractor maintenance management programs as specified in paragraph 4 above and in accordance with DOE O 226.1B
5	6.a.	DOE O 226.1A, <i>Implementation of Department of Energy Oversight Policy</i> , dated 7-31-07.	DOE O 226.1B, <i>Implementation of Department of Energy Oversight Policy</i> , dated 4-25-11.
5	6.d.	DOE M 411.1-1C, <i>Safety Management Functions, Responsibilities, and Authorities Manual</i> , dated 12-31-03.	This reference has been deleted.

Page	Paragraph	Changed	To
5	6.e. now 6.d	DOE O 414.1C, <i>Quality Assurance</i> , dated 6-17-05.	DOE O 414.1D, <i>Quality Assurance</i> , dated 4-25-11.
5	6.g. now 6.f	DOE G 424.1-1A, <i>Implementation Guide for Use in Addressing Unreviewed Safety Question Requirements</i> , dated 7-24-06.	DOE G 424.1-1B, <i>Implementation Guide for Use in Addressing Unreviewed Safety Question Requirements</i> , dated 4-8-10.
5	6.h. now 6.g	DOE O 430.1B, <i>Real Property Asset Management</i> , dated 9-24-03 (Chg 1,2-8-08).	DOE O 430.1B Chg 2, <i>Real Property Asset Management</i> , dated 4-25-11.
5	6.i.now 6.h	DOE G 433.1-1, <i>Nuclear Facility Maintenance Management Program Guide for Use with DOE O 433.1</i> , dated 9-5-01.	DOE G 433.1-1A, <i>Nuclear Facility Maintenance Management Program Guide for Use with DOE O 433.1B</i> , dated 9-12-11.
5	6.j.now 6.i	DOE O 440.1B, <i>Worker Protection Program for DOE (Including the National Nuclear Security Administration) Federal Employees</i> , dated 5-17-07.	DOE O 440.1B Chg 1, <i>Worker Protection Program for DOE (Including the National Nuclear Security Administration) Federal Employees</i> , dated 8-21-12.
6	6.k. now 6.j	DOE G 450.4-1B, Volume 1, <i>Integrated Safety Management System Guide(Volume 1) for Use with Safety Management System Policies (DOE P 450.4, DOE P 450.5, and DOE P 450.6); The Functions, Responsibilities, and Authorities Manual; and the DOE Acquisition Regulation</i> , dated 3-1-01.	DOE G 450.4-1C, <i>Integrated Safety Management System Guide</i> , dated 9-29-11.
6	6.l.now 6.k	DOE M 450.4-1, <i>Integrated Safety Management System Manual</i> , dated 11-1-06.	DOE O 450.2, <i>Integrated Safety Management</i> , dated 4-25-11.
6	6.m.no w 6.l	DOE O 470.2B, <i>Independent Oversight and Performance Assurance Program</i> , dated 10-31-02.	DOE O 227.1, <i>Independent Oversight Program</i> , dated 8-30-11.
6	6.n. now 6.m	DOE O 5400.5, <i>Radiation Protection of the Public and the Environment</i> , dated 2-9-90 (Chg 2, 1-7-93).	DOE O 458.1, Admin Chg 3, <i>Radiation Protection of the Public and the Environment</i> , dated 2-11-11.

Page	Paragraph	Changed	To
6	6.o. now 6.n	DOE O 5480.19, <i>Conduct of Operations Requirements for DOE Facilities</i> , dated 7-9-90 (Chg 2, 10-23-01).	DOE O 422.1, <i>Conduct of Operations</i> , dated 6-29-10.
6	6.p.now w 6.n	DOE O 5480.20A, <i>Personnel Selection, Qualification, and Training Requirements for DOE Nuclear Facilities</i> , dated 7-12-01.	DOE O 426.2, <i>Personnel Selection, Training, Qualification, and Certification Requirements for DOE Nuclear Facilities</i> , dated 4-21-10.
Att. 2, Pg.1	1.a.	Federal and contractor organizations responsible for hazard category 1, 2, or 3 nuclear facilities, as defined by DOE Standard 1027-92 must develop and implement a nuclear maintenance management program (NMMP) through tailored application (e.g., graded approach) of the Specific Requirements in this attachment. The definition of graded approach is provided in Title 10 Code of Federal Regulations (CFR) 830.3. The NMMP must describe the safety management program for maintenance and the reliable performance of structures, systems and components (SSCs) that are part of the safety basis at hazard category 1, 2 and 3 DOE nuclear facilities. Guidance on applying the Specific Requirements, including a graded approach, is provided in DOE G 433.1-1, <i>Nuclear Facility Maintenance Management Program Guide for Use with DOE O 433.1</i> . The referenced Guide is available on the DOE Directives web site, www.directives.doe.gov .	Federal and contractor organizations responsible for hazard category 1, 2, or 3 nuclear facilities, as defined by DOE Standard 1027-92 must develop and implement a nuclear maintenance management program (NMMP) through tailored application (e.g., graded approach) of the Specific Requirements in this attachment. The definition of graded approach is provided in Title 10 Code of Federal Regulations (CFR) 830.3. The NMMP must describe the safety management program for maintenance and the reliable performance of structures, systems and components (SSCs) that are part of the safety basis at hazard category 1, 2 and 3 DOE nuclear facilities. Guidance on applying the Specific Requirements, including a graded approach, is provided in DOE G 433.1-1A, <i>Nuclear Facility Maintenance Management Program Guide for Use with DOE O 433.1</i> . The referenced Guide is available on the DOE Directives web site, www.directives.doe.gov .
Att. 2, Pg. 1	1.e.(1)	Correlation of the requirements in this attachment to the applicable facilities;	Correlation of the Specific Requirements in this attachment to the applicable facilities;

Page	Paragraph	Changed	To
Att. 2, Pg. 1	1.e.(2)	Correlation of the implementing documents (i.e., procedures, work instructions, etc.) to the specific requirements in this attachment; and	Correlation of the implementing documents (i.e., procedures, work instructions, etc.) to the Specific Requirements in this attachment; and
Att. 2, Pg. 2	1.g	Federal and contractor organizations must conduct assessments of NMMP implementation, at least every three years or less frequent if directed by the DOE/NNSA SO in accordance with DOE O 226.1A and 10 CFR part 830 subpart A. DOE G 433.1-1 provides acceptable approaches for conducting NMMP assessments.	Federal and contractor organizations must conduct assessments of NMMP implementation, at least every three years or less frequent if directed by the DOE/NNSA SO in accordance with DOE O 226.1B and 10 CFR part 830 subpart A. DOE G 433.1-1A provides acceptable approaches for conducting NMMP assessments.
Att. 2, Pg. 2	2.a.(1)(a)	DOE O 226.1A, <i>Implementation of Department of Energy Oversight Policy</i> , dated 7-31-07:	DOE O 226.1B, <i>Implementation of Department of Energy Oversight Policy</i> , dated 4-25-11;
Att. 2, Pg. 2	2.a.(1)(b)	DOE O 414.1C, <i>Quality Assurance</i> , dated 6-17-05;	DOE O 414.1D, <i>Quality Assurance</i> , dated 4-25-11;
Att. 2, Pg. 3	2.a.(1)(c)	DOE O 420.1B, <i>Facility Safety</i> , dated 12-22-05;	DOE O 420.1C, <i>Facility Safety</i> , dated 12-4-12;
Att. 2, Pg. 3	2.a.(1)(d)	DOE O 430.1B, <i>Real Property Asset Management</i> , dated 9-24-03 (Chg 1,2-8-08);	DOE O 430.1B Chg 2, <i>Real Property Asset Management</i> , dated 4-25-11;
Att. 2, Pg. 3	2.a.(1)(e)	DOE O 440.1B, <i>Worker Protection Program for DOE (Including the National Nuclear Security Administration) Federal Employees</i> , dated 5-17-07;	DOE O 440.1B Chg 1, <i>Worker Protection Program for DOE (Including the National Nuclear Security Administration) Federal Employees</i> , dated 8-21-12;
Att. 2, Pg. 3	2.a.(1)(f)	DOE O 5480.19, <i>Conduct of Operations Requirements for DOE Facilities</i> , dated 7-9-90 (Chg 2, 10-23-01);	DOE O 422.1, <i>Conduct of Operations</i> , dated 6-29-10;

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Att. 2, Pg. 3	2.a.(1)(g)	DOE O 5480.20A, <i>Personnel Selection, Qualification, and Training Requirements for DOE Nuclear Facilities</i> , dated 7-12-01;	DOE O 426.2, <i>Personnel Selection, Training, Qualification, and Certification Requirements for DOE Nuclear Facilities</i> , dated 4-21-10;
Att. 2, Pg. 3	2.a.(1)(h)	DOE O 5400.5, <i>Radiation Protection of the Public and the Environment</i> , dated 2-9-90 (Chg 2, 1-7-93);	DOE O 458.1, Admin Chg 3, <i>Radiation Protection of the Public and the Environment</i> , dated 2-11-11;
Att. 2, Pg. 3	2.a.(1)(i)	DOE M 450.4-1, <i>Integrated Safety Management Systems Manual</i> , dated 7-4-11.	DOE O 450.2, <i>Integrated Safety Management</i> , dated 4-25-11.
Att. 2, Pg. 4	2.d.	Planning, Scheduling, and Coordination of Maintenance. The process for planning, scheduling, coordination, and control of maintenance activities, and properly emphasizing equipment availability. The process must describe the application of a System Engineer Program in accordance with DOE O 420.1B in the planning and execution of maintenance activities.	Planning, Scheduling, and Coordination of Maintenance. The process for planning, scheduling, coordination, and control of maintenance activities, and properly emphasizing equipment availability. The process must describe the application of a System Engineer Program in accordance with DOE O 420.1C in the planning and execution of maintenance activities.
Att. 2, Pg. 4	2.g.	<u>Training and Qualification</u> . The training and qualification program for maintenance positions specified in DOE O 5480.20A.	<u>Training and Qualification</u> . The training and qualification program for maintenance positions specified in DOE O 426.2.