

# DIRECTIVES CONTROL FORM - ORO O FINAL DIRECTIVE

**PART A** (To be completed by the Division of Primary Interest (DPI))

1. **NUMBER AND TITLE OF DIRECTIVE:** **ORO O 420, Chapter VI, Chg. 2, NUCLEAR SAFETY ANALYSIS REPORTS**

2. **PURPOSE OF TRANSMITTAL:**  New Directive  Revised Directive  Page Change

3. **THIS DOCUMENT MAY AFFECT THE WORK PERFORMED BY THE FOLLOWING CONTRACTORS:** (Check appropriate boxes)

No (all contractors)

Yes If yes, whom?  LMES  LMER  ORAU  SURA

Bechtel Jacobs Company

Other contractors (list by type)

*Many ORO contractors have approved S/RIDs or WSS sets that may affect applicability of contractor requirements from this directive. Applicability of contractor requirements must take into account the approved standards set for each particular contract.*

4. **SIGNIFICANT PROVISIONS:** Are there any significant changes or impact?

No  Yes If yes, describe: This ORO Chapter is part of the ORO sunset review process. Changes to this Chapter include minor editorial revisions to (1) indicate the correct organizational titles of the ORO Project Services and Technical Services Divisions in subparagraph 4d, (2) thoroughly integrate references to the correct correlating DOE Order (DOE 5480.23), and (3) update the ORO and DOE Directives referenced in subparagraphs 6a and h.

5. **CONTACT POINT:** Jorge Ferrer Nuclear Safety Division, SE-33 576-6638  
Name Organization Telephone

**PART B** (To be completed by the Directives Management Group (DMG)):

6. **FILING INSTRUCTIONS:**

<u>Remove</u>	<u>Dated</u>	<u>Insert</u>	<u>Dated</u>
ORO O 420, Chapter VI,	03/31/1998	ORO O Control Form	02/25/1999
Chg. 1, Pages VI-1 through VI-4		ORO O 420, Chapter VI,	02/25/1999
		Chg. 2, Pages VI-1 through VI-4	

*ORO Orders are available on the ORO Directives Management Home Page [http://www.ornl.gov/doe\_oro\_dmg/orchklst.htm] within 5-10 working days after receipt of this Control Form. The ORO Orders will no longer be mailed in printed copy unless you do not have Internet capabilities.*

7. **APPROVED FOR DISTRIBUTION IN ACCORDANCE WITH THE OFFICIAL DIRECTIVES DISTRIBUTION LIST:**

*Original signed by*

Jennifer H. Cusick, AD-440  
Signature Management Analyst, AD-440

02/25/1999  
Date

**INSTRUCTIONS TO ADDRESSEES: THIS FORM IS TO BE FILED WITH THE DIRECTIVE AND RETAINED**  
Rev. 08/04/1998

# U.S. Department of Energy

Oak Ridge Operations

ORO O 420 Chapter VI Change 2
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DATE: 02/25/1999

## SUBJECT: NUCLEAR SAFETY ANALYSIS REPORTS

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1. PURPOSE. This Chapter correlates to DOE 5480.23, NUCLEAR SAFETY ANALYSIS REPORTS, dated April 10, 1992. This ORO Order assigns responsibility and accountability and provides administrative and/or contractual guidance to Oak Ridge Operations (ORO) and its contractors. Nothing in this issuance changes any requirements contained in any DOE Order.
2. CANCELLATION. This Chapter cancels and replaces ORO O 420, Chapter VI, Chg. 1, NUCLEAR SAFETY ANALYSIS REPORTS, dated March 31, 1998.
3. APPLICABILITY. This Chapter applies to ORO Principal Staff, management and operating contractors, and other covered contractors responsible for the design, operation, decontamination, or decommissioning of ORO nuclear facilities, to the extent set forth in their contract.
4. RESPONSIBILITIES. Many ORO contractors have developed Standards/Requirements Identification Documents (S/RIDs) or Work Smart Standards (WSS) sets that may not include requirements referenced or included in DOE 5480.23 or this Chapter. Interpretation and performance of Federal responsibilities outlined below must take into account the approved standards set for each particular contract and must not be deemed to add any requirements to the approved set.
  - a. Manager approves Safety Analysis Reports (SAR) and issues the associated Safety Evaluation Reports (SER) for nuclear facilities if so delegated by the cognizant Secretarial Officer (CSO) where redelegation to subordinate levels of ORO is not authorized.
  - b. Assistant Managers approve SAR and issues the associated SER for nuclear facilities where redelegation to subordinate levels of ORO is authorized and/or approved by the CSO and formally documented by the Manager.
  - c. Director, Nuclear Safety Division.
    - (1) Conducts independent reviews of nuclear SAR and other safety documentation when requested by the Contracting Officer's Representatives (COR). Prepares SER to document the review and findings/recommendations and transmits to the COR.
    - (2) Assists in oversight of contractor preparation and review of safety analyses, when requested by the COR. Prepares appropriate documentation of the activity and associated findings/recommendations and transmits to the COR.
  - d. Director, Project Services Division, or Director, Technical Services Division.
    - (1) Assists in the review of Preliminary Safety Analysis Reports (PSAR) and Final Safety Analysis Reports (FSAR) for construction projects related to new or modified facilities

where documentation is required. Provides recommendations to the COR on engineering aspects of the documents.

(2) Maintains the permanent ORO file of pertinent documents related to engineering activities.

e. Principal Staff.

(1) Assist in the review of PSAR and FSAR for new or modified facilities where documentation is required. Forward recommendations to the COR.

(2) Under whose supervision procurement requests are initiated, perform those tasks identified in DOE 5480.23, subparagraph 7c(4)(a).

f. Contracting Officer's Representatives.

(1) Approve SAR and issue the associated SER for nuclear facilities where redelegation to the COR is authorized and/or approved by the CSO and formally documented by the Manager.

(2) Perform those tasks identified in DOE 5480.23, subparagraphs 7c(1)-(3), except where a Headquarters Program Office has directed an alternate review and approval process.

5. REQUIREMENTS AND PROCEDURES. None.

6. REFERENCES.

a. ORO O 420, Chapter V, DELEGATION OF APPROVAL AUTHORITY FOR DOE 5480.21, 5480.22, 5480.23, AND 5481.1B, dated September 30, 1996, and any subsequent revisions.

b. DOE-STD-1027-92, HAZARD CATEGORIZATION AND ACCIDENT ANALYSIS TECHNIQUES FOR COMPLIANCE WITH DOE ORDER 5480.23, NUCLEAR SAFETY ANALYSIS REPORTS, dated December 1992.

c. DOE-STD-1082-94, PREPARATION, REVIEW, AND APPROVAL OF IMPLEMENTATION PLANS FOR NUCLEAR SAFETY REQUIREMENTS, dated October 1994.

d. DOE-STD-1104-96, REVIEW AND APPROVAL OF NONREACTOR NUCLEAR FACILITY SAFETY ANALYSIS REPORTS, dated February 1996.

e. DOE-STD-3009-94, PREPARATION GUIDE FOR U.S. DEPARTMENT OF ENERGY NONREACTOR NUCLEAR FACILITY SAFETY ANALYSIS REPORTS, dated July 1994.

f. DOE-STD-3011-94, GUIDANCE FOR PREPARATION OF DOE 5480.22 (TSR) AND DOE 5480.23 (SAR) IMPLEMENTATION PLANS, dated November 1994.

- g. DOE-EM-STD-5502-94, HAZARD BASELINE DOCUMENTATION, dated August 1994.
  - h. DOE-STD-1120-98, INTEGRATION OF ENVIRONMENT, SAFETY, AND HEALTH INTO FACILITY DISPOSITION ACTIVITIES, dated May 1998.
7. DEFINITIONS. **Safety Evaluation Report** is primarily a management document that provides the approval authority the basis for the extent and detail of SAR review and the basis for and any conditions of SAR approval. SER also document the bases for approving SAR revisions, including annual updates (see DOE-STD-1104-96).
8. CONTRACTOR REQUIREMENTS DOCUMENT. See Contractor Requirements Document, Attachment 1 of this Chapter.
9. ATTACHMENTS.

Attachment 1 - Contractor Requirements Document.

**CONTRACTOR REQUIREMENTS DOCUMENT**

Contractors identified in paragraph 3 of this Chapter will, to the extent set forth in their contract, develop and implement safety analysis program(s) that conform to the requirements of DOE 5480.23, paragraphs 8 and 9, or the requirements of this Chapter or DOE 5480.23 as listed in their Work Smart Standards documents. Obtain DOE approval of such programs as directed therein.

NOTE: See ORO O 420, Chapter V, Attachment 1, for additional responsibilities delegated to contractors.