

## ***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, Change 1, NUCLEAR SAFETY ANALYSIS REPORTS**
  
2. **PURPOSE OF TRANSMITTAL:**     New Directive         Revised Directive         Page Change
  
3. **CONTRACTOR REQUIREMENTS:** Does directive contain requirements applicable to contractor(s)?  
Check appropriate boxes:  
  
 No (all contractors)  
  
 Yes If yes, whom?         LMES         LMER         ORAU         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. **SUMMARY OF SIGNIFICANT PROVISIONS OR CHANGES:** Revises paragraph 4 to modify the language to acknowledge that the subject matter of this Chapter (not any specific requirements from this Chapter) may be covered under one or more WSS sets or S/RIDs.

5. <b>CONTACT POINT:</b> <u>Mike Boyd</u>	Nuclear Safety Division, SE-33	576-0821
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	09-30-96	ORO O Control Form	03-31-98
Page VI-1		ORO O 420, Chapter VI, Chg. 1	03-31-98
		Pages VI-1 and VI-1a	

**ORO Orders are available on the ORO Directives Management Home Page**  
[[http://www.ornl.gov/doe\\_oro\\_dmg/orchklst.htm](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*

*03/31/1998*

\_\_\_\_\_  
Signature    Management Analyst, AD-440

\_\_\_\_\_  
Date

# U.S. Department of Energy

Oak Ridge Operations

ORO O 420  
Chapter VI  
Chg. 1

DATE: 03-31-98

**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 ORIG 5480.23A, NUCLEAR SAFETY ANALYSIS REPORTS, dated February 28, 1994.
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.
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 Officers' 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 Management Division, or Director, Engineering 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 O 421.3, subparagraph 7c(4)(a).

f. Contracting Officers' 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 O 421.3, 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, to be published.
- 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/OR-901, GUIDANCE FOR PREPARATION OF SAFETY ANALYSIS REPORTS FOR NONREACTOR FACILITIES AND OPERATIONS, Revision 2, dated November 1992.

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 that are identified in paragraph 3 of this Chapter shall develop and implement safety analysis program(s) that conform to the requirements of DOE O 421.3, 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.