

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 430, Chapter III, Chg. 2, NUCLEAR REACTOR SAFETY DESIGN CRITERIA**
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) Any that will be involved in Reactor Design and/or Construction.

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) reflect the current organizational title of the ORO Operations Division, (2) thoroughly integrate references to the correct correlating DOE Order (5480.30), and (3) update the ORO Directive referenced in paragraph 6.
5. **CONTACT POINT:** John Harris Nuclear Safety Division, SE-33 576-0839
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 430, Chapter III,
Chg. 1, Pages III-1 through III-3 | 03/31/1998 | ORO O Control Form
ORO O 430, Chapter III,
Chg. 2, Pages III-1 through III-3 | 12/02/1998
12/02/1998 |

*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

12/02/1998
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 430 Chapter III Chg. 2

DATE: 12/02/1998

SUBJECT: NUCLEAR REACTOR SAFETY DESIGN CRITERIA

1. PURPOSE. This Chapter correlates to DOE 5480.30, NUCLEAR REACTOR SAFETY DESIGN CRITERIA, dated January 19, 1993, by assigning responsibility and accountability and providing 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 430, Chapter III, Chg. 1, NUCLEAR REACTOR SAFETY DESIGN CRITERIA, dated March 31, 1998.
3. APPLICABILITY. The provisions of this Chapter apply to ORO Principal Staff and contractors to the extent provided by contract and as implemented by the contracting officer.
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 5480.30 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. Director, Operations Division.
 - (1) Performs those tasks identified in DOE 5480.30, subparagraphs 7d(1)-(3).
 - (2) Advises the ORO Manager; Director, Nuclear Safety Division (NSD); and appropriate DOE Headquarters organizations of safety issues, deficiencies, needs, and actions taken (see DOE 5480.30, subparagraph 7d(4)).
 - b. Director, Nuclear Safety Division.
 - (1) When requested by the Operations Division, conducts reviews of nuclear reactor safety analyses and design basis documents, and otherwise assists in oversight of contractor operations (see DOE 5480.30, subparagraph 7d(2)).
 - (2) Conducts independent appraisals to ensure that the nuclear design criteria, as described in DOE 5480.30, paragraph 8, are appropriately incorporated by the contractor into existing and proposed directives, plans, or procedures.
 - c. Principal Staff, under whose supervision procurement requests are initiated, perform those tasks identified in DOE 5480.30, subparagraph 7d(5).
5. REQUIREMENTS AND PROCEDURES. None.

6. REFERENCES. ORO O 420, Chapter VI, NUCLEAR SAFETY ANALYSIS REPORTS, dated September 30, 1998, and any subsequent revisions.
7. DEFINITIONS. None.
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 will accomplish the following, to the extent set forth in their contract:

1. Develop and implement nuclear reactor design criteria that conform to the requirements of DOE 5480.30, paragraph 8 and Attachment 3.
2. For new nuclear reactor facilities, ensure that all safety class structures, systems, and components are designed, fabricated, erected, and tested in accordance with the provisions of DOE 5480.30.
3. For existing reactor facilities, ensure that the safety bases in the upgraded Safety Analysis Report demonstrate that the appropriate requirements of DOE 5480.30 are compared and evaluated against the original/current safety design bases (see DOE 5480.30, paragraph 9b).