

**Nuclear Training Course 23001
(NEIT 230.1)**

Mechanical Equipment

September 1994

MECHANICAL EQUIPMENT

TABLE OF CONTENTS

- 1 Centrifugal Pumps and Systems
- 2 Positive Displacement Compressor Operation

ABSTRACT OF CURRENT REVISION

R-3. Module 3 was deleted from the course. To avoid duplication of materials, the topic of boiler safety valves is now covered fully in the 23004 Turbine & Auxiliaries course.

Note:

The R-2 version of the course was approved for use, but not issued. The issue of R-2 was withheld to avoid the expense of a course issue when R-3 and the 23004 course revisions were imminent.

Sept 1994

ABSTRACT OF PREVIOUS REVISIONS

R-2. Minor revision to improve clarity, and minor technical errors. Highlight of major changes are as follows:

- Module 1, Net positive Suction Head, clarification to explanation of $NPSH_A$.
- Module 1, Series Mounted Pumps in a Closed Loop System, clarification to explanation.
- Module 1, Pumps in Series and Parallel, clarification to explanation.
- Module 1, Added additional labels to Figure 1.28.
- Module 2, Added statement about the impact of machine wear.
- Module 3, Clarified paragraph 2, boiler safety valve capacity.

Feb 1994

Revised by: N. Ritter

NOTES & REFERENCES

July 1993

R-1. Complete revision to update course, reflecting operator job family requirements. Added abstract of revisions.

- Previous module 230.10-1, Centrifugal Pumps, completely rewritten.
- Previous module 230.11-1, Compressors, separated contents. Relevant material revised. Relevant remaining material transferred to 330.1 course.
- Module 3, Steam Generator Safety Valves, new module added.
- Previous module 230.12-1, Lubrication, transferred to 330.1.
- Previous modules 230.13-1,2,3,4 Shaft Couplings, Belt Drives, Chain Drives, Gears and Gearing, deleted.
- Previous module 230.14-1, Refrigeration, transferred to 330.1.
- Previous module 230.15-1, Diesel Engines, deleted.
- Previous module 230.16-1, Gas turbines, transferred to 330.1.

Revised by: D. Bieman, R. Harding, N. Ritter

Dec 1972

R-0. Original Issue.

Prepared by: L. Laplante