

**SMUD**

SACRAMENTO MUNICIPAL UTILITY DISTRICT

**DESIGN CRITERIA**

NEPM Index No.

5101.2

Lead Discipline

MECHANICAL

**PROJECT CLASSIFICATION OF EQUIPMENT****1.0 PURPOSE**

This section provides direction for project classification of equipment. Project classifications are a shorthand method of indicating the quality and seismic categories and the code under which design, procurement, manufacture, fabrication, erection and installation are to take place.

**2.0 SCOPE**

The classification system covers all equipment in the plant. From a practical standpoint it covers any item which has a tag number.

**3.0 DEFINITIONS**

Not Applicable

**4.0 GOVERNING CODES AND INDUSTRY STANDARDS**

Not Applicable

**5.0 DESIGN CRITERIA**

The project classifications for piping, valves and equipment consist of a combination of digits and letters. The first digit represents the quality class; the second digit indicates seismic class and the third indicates the applicable code.

When a nuclear code is involved, an "N" between the second and third digits designates that the component is part of a safety system and all the requirements of the applicable nuclear code class apply. The code class in nuclear components is indicated by the third digit.

The quality classes are indicated by numbers 1 or 2 as defined in the Rancho Seco Quality Assurance Program Manual Section 3, and FSAR Appendix 1B. A 3 in the quality class position indicates no quality assurance is required and commercial quality control practice is adequate.

The seismic categories are indicated by numbers 1, 2, or 3 representing the three seismic categories defined in FSAR Appendix 5B.

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Initial Issue

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**5.1 CODES**

The last digit of all equipment project classifications, regardless of whether nuclear or nonnuclear, represents the applicable code under which design, procurement, manufacture, fabrication, erection and installation are made. The following is the definition of these numbers:

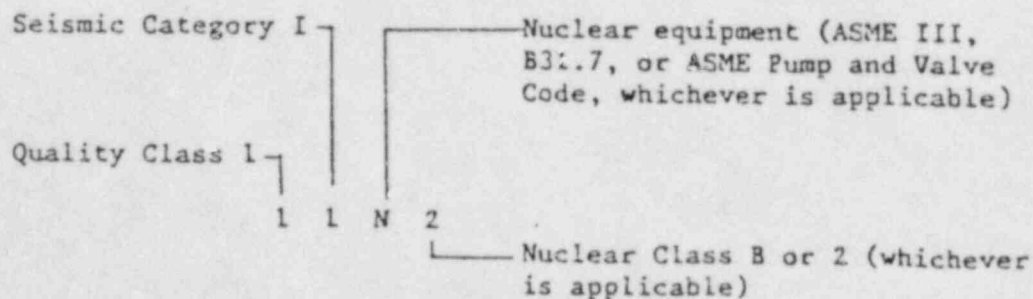
Equipment Design Classification Last Digit	Applicable Code
1, 2, or 3	See Design Criteria 5108.2 for definitions
4	ASME B&PV Code, Section I
5	TEMA, Heat Exchange Institute Standards
6	American Petroleum Institute
7	Hydraulic Institute Standards
8	ASME B&PV Code, Section VIII
9	Other
9A	ASHRAE, AMCA
X	Manufacturer's Standard (No applicable code)

**5.2 EXAMPLES**

The following are examples of project classification use:

**(1) Nuclear Equipment Classification**

The following example would be interpreted as follows:



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(2) Nonnuclear Equipment Classification

The following example would be interpreted as follows:

