

# ASME OM Code Case to ASME OM Code Requirement

January 2025



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# 10 CFR Part 50: Domestic licensing of production and utilization facilities



## Government Regulation

- 10 CFR Part 50
- 10 CFR 50.55a Codes and Standards

## ASME Domestic Nuclear Power Codes Incorporated by Reference

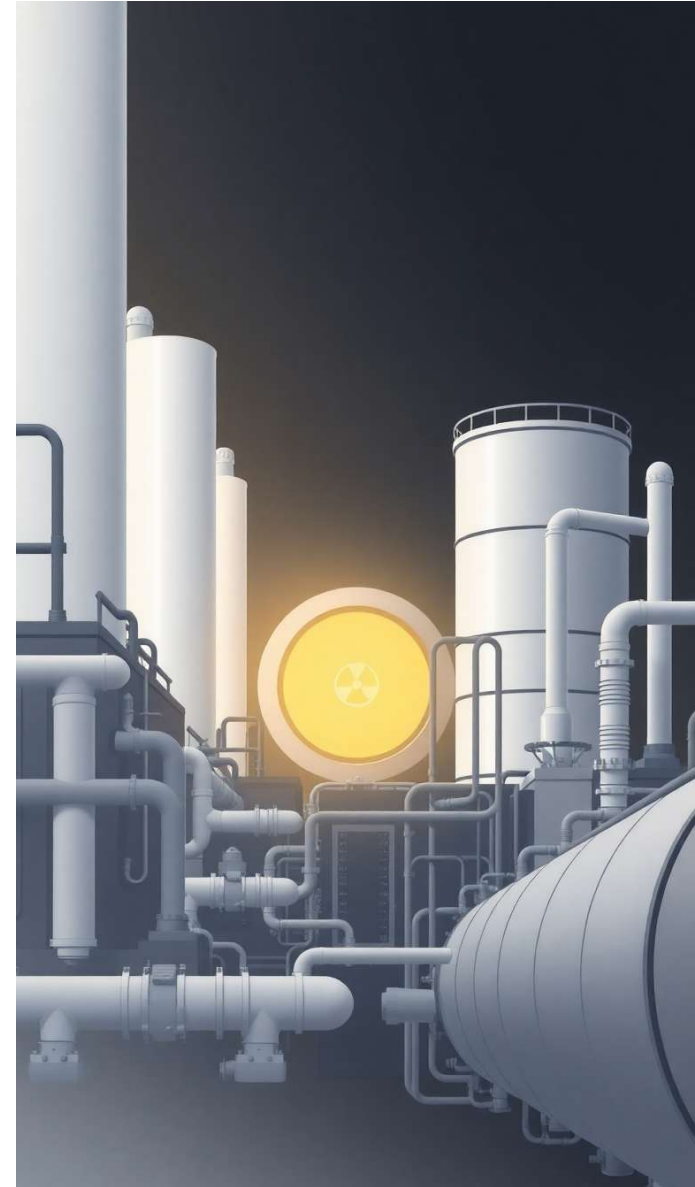
- ASME Section III Code
- ASME Section XI Code
- ASME OM Code

# Introduction

The American Society of Mechanical Engineers (ASME) issues Codes and Standards for nuclear power plants.

These documents are developed and maintained by volunteer experts through a consensus process that ensures all stakeholder interests are represented.

This presentation focuses on the ASME Operation and Maintenance (OM) Code and the incorporation of OM Code Case OMN-24.



# ASME OM Code Case OMN-24

## Purpose

- Provides an alternative to the group test requirements for ASME Code Class 2 or 3 relief valves

## Test Interval

- Allows a 10-year test interval for single valves

# Present Requirements

The group sample plan involves testing a different valve and using its results to infer the condition of other valves. Under OMN-24, individual valves are treated separately. This alternative is crucial when a valve is not part of a group.





Following a successful test, OMN-24 permits a 24-month extension from the 48-month requirement, allowing single valves to be tested less frequently while maintaining safety.

# Code Case Logistics

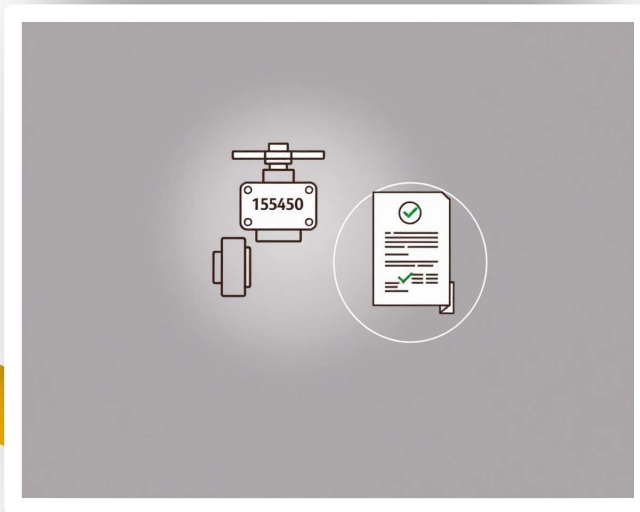
## OMN-24 Implementation Details

### Location verses Valve Tracking

- Valves under OMN-24 are tracked by serial numbers or unique IDs instead of by plant location

### Approval for Use

- Approved in Regulatory Guide 1.192 without conditions



# Process for Code Incorporation

## From Code Case to Code Requirement

- Proposal Development
- Initial and revised proposals reviewed by ASME OM Committee
- Consensus Ballot
- Consensus achieved after addressing comments and obtaining unanimous approval



# Approved Changes

- The new requirements for single valve testing will be included in the Code Edition published after the 2022 Edition of ASME OM Code, Appendix I in paragraph I-1350(a)(2).
- The approved changes provide two options for testing intervals based on location OR individual valve performance.
  1. At least once every 48-months regardless of performance

OR

  2. Up to 120 months with good performance

# Incorporation in the ASME OM Code

## From the 2022 Edition

I-1350(a)(2) For valve groups containing only one valve, the valve shall be tested at least every 48 months.

## Approved for next Edition

I-1350(a)(2) The Owner shall choose which approach to utilize from the following two options for individual valves.

(-a) For valve groups containing only one valve, the valve shall be tested at least every 48 months, unless performance data indicate the need for more frequent testing.

(-b) A performance-based test plan shall be used for valves not in a group.

(-1) The relief valve shall be tracked by its unique identification number as provided by its manufacturer (e.g. serial number) or as applied by the Owner.

(-2) The initial test interval shall not exceed 48 months since the last set-pressure test.

(-3) A relief valve that satisfies the as-found set-pressure test criterion may have its test interval extended by up to 24 months. The test interval shall begin from the date of the as-left set-pressure test for the installed valve.

(-4) A relief valve that fails the as-found set-pressure test shall have its test interval reduced by 24 months. The minimum required test frequency for this circumstance is a 24-month interval.

(-5) The test interval for any individual relief valve shall not exceed 120 months except that a 6-month grace period is allowed by ISTA-3170.

# GSE Solutions EP-Plus Relief Valve Module

Search...

**01** Actions

**11** EG System relief devices ●

**20** KK System relief devices. ●

**Test Group** ●

**Test Group 2** ●

**Test Group 3** ●

**01** ●

**05** ●

**RD** ●

**Thermal** ●

Items 1 - 9 of 9

**Success!** On 1/23/2025 this group is compliant.

Scheduling Type	Class 2.	Sample Required	Yes
Sampling Plan	20%	Test Strategy	Replace w/ Partial Compliment
Code Compliance Window Months	48	Test Type	SPT
Actual Compliance Window Months	20		
Installed Relief Devices In Group	18		

Group Basis

Note: These are Code Class 2 MS Safety Valves and are required by Code to be treated like Code Class 1 relief devices. The Scheduling Type is set at Class 1 even though these are Class 2 devices.

Associated    Upcoming Tests

**Installed Devices**

Identifier	Description	Prev. Recert Date	Equipment Type
1AB-V0130 [N73365-00-0008]	Main Steam Loop 1 Safety Valve	4/5/2022	VALVE
1AB-V0131 [N73365-00-0004]	Main Steam Loop 1 Safety Valve	4/5/2022	VALVE
1AB-V0132 [N73365-00-0012]	Main Steam Loop 1 Safety Valve	4/5/2022	VALVE
1AB-V0133 [N73365-00-0016]	Main Steam Loop 1 Safety Valve	4/5/2022	VALVE

# GSE Solutions EP-Plus Relief Valve Module

Search...

**01**

Success! On 1/23/2025 this group is compliant.

Serial Number	Description	Prev. Recert Date	Equipment Type
1AB-V0231 [N73365-00-0007]	Main Steam Loop 2 Safety Valve	11/16/2022	VALVE
1AB-V0232 [N73365-00-0010]	Main Steam Loop 2 Safety Valve	11/16/2022	VALVE
1AB-V0233 [N73365-00-0015]	Main Steam Loop 2 Safety Valve	11/16/2022	VALVE
1AB-V0234 [N73365-00-0019]	Main Steam Loop 2 Safety Valve	11/16/2022	VALVE
1AB-V0331 [N73365-00-0022]	Main Steam Loop 3 Safety Valve	3/18/2022	VALVE
1AB-V0332 [N73365-00-0011]	Main Steam Loop 3 Safety Valve	3/18/2022	VALVE
1AB-V0333 [N73365-00-0014]	Main Steam Loop 3 Safety Valve	3/18/2022	VALVE
1AB-V0334 [N73365-00-0025]	Main Steam Loop 3 Safety Valve	3/18/2022	VALVE
1AB-V0430 [N73365-00-0001]	Main Steam Loop 4 Safety Valve	5/6/2022	VALVE
1AB-V0431 [N73365-00-0005]	Main Steam Loop 4 Safety Valve	5/6/2022	VALVE
1AB-V0432 [N73365-00-0009]	Main Steam Loop 4 Safety Valve	5/6/2022	VALVE
1AB-V0433 [N73365-00-0013]	Main Steam Loop 4 Safety Valve	5/6/2022	VALVE

**Spare Devices**

Serial Number	Description	Prev. Recert Date	Equipment Type
N73365-00-0003	Main Steam Loop 2 Safety Valve	11/16/2022	VALVE

Items 1 - 9 of 9

# GSE Solutions EP-Plus Relief Valve Module

The screenshot displays the EP-Plus Relief Valve Module interface. On the left, a sidebar lists various relief device groups: 11 EG System relief devices, 20 KK System relief devices, Test Group, Test Group 2, Test Group 3, 01 (selected), 05, RD, and Thermal. The main content area shows details for group 01, including a success message, a note about Code Class 2 MS Safety Valves, and a table of device test results.

**Success!** On 1/23/2025 this group is compliant.

Note: These are Code Class 2 MS Safety Valves and are required by Code to be treated like Code Class 1 relief devices. The Scheduling Type is set at Class 1 even though these are Class 2 devices.

Associated Upcoming Tests

**Info!** Required tests between today and the end of U1RFORO20 (TNC UNIT 1) [3/1/2025 - 6/1/2025] [6/1/2025]

Tests Required: 4

Failures: 0

Device	Freq / Online Tested	Prev. Recert Date	Next AF Test	Planned	Procedures	Next AF Test Status	Status
1AB-V0230 [N73365-00-0021]	5Y / N	3/18/2022	3/1/2025	False	STM-AB-001-3	Adjusted for compliance	Scheduled
1AB-V0331 [N73365-00-0022]	5Y / N	3/18/2022	3/1/2025	False	STM-AB-001-3	Adjusted for compliance	Scheduled
1AB-V0332 [N73365-00-0011]	5Y / N	3/18/2022	3/1/2025	False	STM-AB-001-3	Adjusted for compliance	Scheduled
1AB-V0333 [N73365-00-0014]	5Y / N	3/18/2022	3/1/2025	False	STM-AB-001-3	Adjusted for compliance	Scheduled



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