

2017 NBIC Reorganization



National Board Inspection Code

Now arranged into 4 parts



New Part 4



Introduction of NBIC Part 4: **Pressure Relief Devices**

Treats Pressure Relief Devices and Overpressure Protection as a unified subject

New Part 4



1. First section is implementation of the new construction standard: Installation
2. Sub-section for each type of Pressure Retaining Item (PRI)
 1. Boilers
 2. Heating boilers
 3. Potable hot water
 4. Pressure vessels
 5. Piping systems

Inspectors Goal



Is proper overpressure protection device present?

Is the device installed correctly?

Improper installation can affect device capacity and operation.

This section closely mirrors ASME Code.

New Part 4



Once a PRI is in service it must be inspected.

Second section of Part 4 is for in-service inspection.

Outlines inspection process, including device operation.

Deficiencies found often lead to...

New Part 4



Pressure Relief Valve Repair – third section of the standard

Includes repair as regulated through the National Board VR program

(Administrative rules for VR in NB-514)

New Part 4 – Reorganization Goal



- Technology Neutral
- New terminology use throughout
- Total review and cleanup

New Part 4



New pressure relief topics being studied:

- Low pressure device repair
- Pin device repair
- Overpressure protection by system design (Ref. UG-140)
- Thermal Fluid Heater protection

New Part 4



Part 1 (Installation) and Part 2 (In-service inspection) retains previous organization and content so Pressure Relief Devices can be looked at in context

New Part 4



Primary users of part 4 will probably be:

- VR Certificate holders (including those regulated by Jurisdictions)
- Owner/user organizations
- Suppliers of new pressure relief devices

New Part 4



Goal: Treat pressure relief
information as one
organized subject in one
location