



Ohio Administrative Code

Rule 4101:4-5-01 Boilers and pressure vessels of special design.

Effective: July 1, 2024

(A) When a boiler or pressure vessel proposed for use in Ohio does not conform to all the provisions of the applicable section of the "ASME Boiler and Pressure Vessel Code" referenced in rule 4101:4-3-01 of the Administrative Code, application can be made to the board for legal use in Ohio by submitting, prior to fabrication, the following documents, sealed by a registered professional engineer holding a certificate issued under section 4733.14 of the Revised Code:

(1) A written analysis detailing how the proposed boiler or pressure vessel does not conform to the requirements of the "ASME Boiler and Pressure Vessel Code";

(2) Detailed construction drawings;

(3) Materials specifications;

(4) Design calculations;

(5) Welding details and procedures, and procedure qualification tests (when applicable); and

(6) Detailed quality control procedures used in all phases of construction.

(Note: All documents submitted are to be in the English language, and all dimensions, pressures, temperatures, and material properties are to be in the same units as used in the applicable section of the "ASME Boiler and Pressure Vessel Code" referenced in rule 4101:4-3-01 of the Administrative Code.

(B) After receipt by the board, the documents listed above will be reviewed by a registered professional engineer assigned or approved by the board. After review, the professional engineer will make a recommendation to the board.



(C) If the application is approved by the board, the boiler or pressure vessel is to be inspected during construction by an authorized inspector, tested as required by the applicable section of the "ASME Boiler and Pressure Vessel Code" as referenced in rule 4101:4-3-01 of the Administrative Code and in accordance with the conditions of the resolution issued by the board. If approved, the boiler or pressure vessel of special design is to be tagged with an "OHIO SPECIAL" serial number by a general inspector.

(D) When an existing "Ohio Special" boiler or pressure vessel that has been approved by the board is proposed to be repaired, reinstalled, or relocated, the work is to be performed in accordance with rule 4101:4-9-01 of the Administrative Code.

(E) When an existing "Ohio Special" boiler or pressure vessel that has been approved by the board is proposed to be altered, the proposed alterations are to be documented by a registered design professional and evaluated and approved by the board, prior to the alteration, in the same manner as described in paragraphs (A) and (B) of this rule. If the alterations are approved by the board, the boiler or pressure vessel may be altered in accordance with the conditions of the resolution and, consistent with "Part 3" of the "NBIC", the original code of construction or the currently adopted "ASME Boiler and Pressure Vessel Code" referenced in rule 4101:4-3-01 of the Administrative Code. The boiler or pressure vessel is to be tested and inspected as required by the conditions of the resolution issued by the board.