



- (g) Calculations (made by an engineer familiar with the design of boilers /pressure vessels) made to support the re-rate based on the section and edition of the ASME Code in effect at the time of **original** construction.
- (h) A current ultrasonic examination with the name and qualifications of the ultrasonic examination technician.. This report shall cover all Pressure boundaries, such as shell, heads, nozzles, re-enforcement etc. and locations where corrosion and deterioration exist. Insulation must be removed.
- (i) A rubbing or photo of the original ASME nameplate and any “R” plates attached to the vessel.
- (j) Current and past inspection records to verify the pressure retaining item is satisfactory for the proposed service condition.
- (k) An inspection report, from an inspector with a California Certificate of Competency employed by the National Board/ASME Certificate Holder performing the Alteration or the Owner/User owning/using the vessel. The Inspector shall submit a report to certify at a minimum that: the nameplates, vessel dimensions and thickness, flange ratings and dimensions, attachments (clips, angles, structural), bolting specifications, quantity and location of nozzles, and areas of previous repairs are as noted in the paperwork submitted. The report shall include inspection of all welds and pressure retaining parts to be re-rated/de-rated, including tube bundles and floating heads. The report shall be dated, signed and the Inspector’s California C of C Number included.
- (l) The calculated maximum inspection intervals, and an estimate of the remaining life of the vessel.
- (m) Finally, the Owner/User shall send a description of the new safety relieving devices and controls that will assure safe operation of the vessel in the newly calculated temperature/pressure range.

**Note:** De-rating/re-rating to a different “Factor of Safety” or “Design Factor” than that required by the original ASME Code of Construction is not allowed in California.

After the Division’s review of the de-rate/re-rate package proves satisfactory, a letter allowing the de-rate/re-rate to proceed will be returned to the user. Following completion of the project the following must be submitted:

- (a) A completed R-2 form with a rubbing or picture of the new “R” stamping added to the vessel.,
- (b) The Jurisdictional Number (R-2 Form, line #8) shall be included if the Vessel is a State permitted Boiler, Propane Tank or Air Tank.
- (c) The hydrostatic test pressure applied (R-2 form line #13) shall be filled in.
- (d) The “Design Certification” and “Certificate of Design Change Review” on the back of the R-2 form shall be filled in. The “Construction Certification” and “Certificate of Inspection” must also be filled in if any physical changes were made. The R-2 shall be registered with the National Board.