

**Pressure System Owner Checklist**

for New or Modified Systems

(Guidance)

Before Design

- Select applicable ASME code for design and fabrication (consult with PSO)
- Select qualified Pressure System Designer

During Design

- Establish system design conditions (e.g., temperature, pressure, flow, ambient effects, dynamic effects)
- Perform system design calculations in accordance with applicable ASME B31 piping code

Before Fabrication

- Designate qualified Examiner and establish Examiner witness and hold points
- Engage qualified Owner's Inspector and establish Inspector witness and hold points
- Procure listed piping components in accordance with applicable ASME B31 piping code (or obtain variance using request)
- Procure pressure vessels in accordance with ASME B&PV Code, Section VIII (or obtain variance by request)

During Fabrication

- Utilize qualified personnel for performance of fabrication steps (e.g., qualified welders or compression fitting assemblers)
- Perform examinations and inspections as agreed with examiner and inspector

Before Operation

- Perform leak test in accordance with applicable ASME B31 piping code
  - o Ensure that instrumentation has been calibrated
  - o Ensure that Owner's Inspector is present to witness test
  - o Contact PSO to review documentation package and obtain system certification

During Operation

- Ensure that personnel operating the system have received applicable institutional training in accordance with P101-34
- Establish periodic maintenance requirements in accordance with ESM Chapter 17