1. **Form must be signed and approved by a DCPSO or CPSO in order to procure (per ASM Form 410; see footnote 1).**
   1. **An approving DCPSO cannot also be the requestor (maintains preparer/verifier independence required by SD 330)**
2. **Include supporting documentation (calculations, vessel drawings, purchase quotes, etc.) as applicable.**
3. **A copy of the ASME Manufacturers’ Data Report with NBIC Numbering and Registration is required for all purchases.**

**(data for example only, delete when using form)**

| **PSCS #**  **Pressure System ID#** | **TA** | **Bldg** | **Vessel Type ASME Section** | **Product Information**  **Manufacturer and Model Number** | **Rating**  **Gallons, Cubic Feet, BTU, etc** | **Maximum Allowable Working Pressure (gauge)**  **Psig** | **Minimum and Maximum Allowable Working Temperature F** | **ASME Relief Device Required** | **Relief Flow Corrosion Allowance[[1]](#footnote-1)**  **Inch** | **CSD[[2]](#footnote-2)1 or NFPA 85** | **Relief Devices Supplied by Fabricator or others?** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2201 | 53 | 4 | Section I (Power Boiler) | Clever Brooks CBEX | 200 HP (669,500 BTU/Hr Boiler Output) | 200 psig saturated steam | 75 to 388 F | 2  (1) 1-1/2”  (1) 1-1/4” | 1/16 | CSD-1 | Fabricator |
| 2201 | 53 | 4 | Section I (Power Boiler) |  | 250,000 BTU/Hr Boiler rating | 175 psig hot water | 75 to 250 F | 2  (1) 1-1/2  (1) 1-1/4 | 1/16 | CSD-1 | Fabricator |
| 2201 | 53 | 4 | Section I (Power Boiler) | Clever Brooks CBEX Elite | 1200 HP (40,170,000 BTU/Hr Boiler Output) | 200 psig saturated steam | 75 to 388 F | 3  2-1/2” each | 1/16 | NFPA 85 | Fabricator |
| 2011 | 53 | 1 | Section IV (Heating Boiler) | Clever Brooks CFLC | Boiler rating 10,000,000 BTU/Hr (9,400,000 BTU/HR Output) | 160 psig | 75 to 250 F | 1 set at 125 psig | 1/16 | CSD-1 | LANL Supplied see ADMIN-3-FM03 for approved PRD, attached to this document. |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 5903 | 55 | 0400 | Section VIII (Pressure Vessel Div. 1 (Design by Rule) | Prentex Alloy Fabricators, Inc. | 72 OD x 140 Seam | -15 (full vacuum) to 150 psig | -20 to 650 psig | NA | 1/16 | NA | Fabricator |
| 247 | 03 | 2327 | Section VIII (Heat Exchanger Div. 1 (Design by Rule)  Tubular Exchanger Manufacturers Association (TEMA) | Alloy Engineering | Shell and Tube Exchanger 24 in x 100 in | 250 psig (shell and tubes) | 75 to 1200 F | 1 shell  1 ½ in  1 tube  1 in | 1/16 | NA | LANL Supplied see ADMIN-3-FM01 for approved PRD, attached to this document. |
| 3864 | 03 | 0040 | Section VIII Div. 1 (Cryogenic) Interior  CGA 341 Exterior | Chart Industries HS-1500SC | 1580 gallon Cryogenic LN2 | 250 psig | -320F to 100 F | Internal Vessel  2 Rupture Discs  2 Relief Devices  Annulus: 1 rupture disc | 1/16 | NA | Fabricator |
| 3036 | 53 | 0003 | Section VIII (Pressure Vessel) Div. 2 (Design by Analysis) | Prentex Alloy Fabricators, Inc. | 500 gallon vertical storage tank; flammable liquid | -15 (full vacuum) to 150 psig | 0 to 100 F | 1 each  1 ½ inch  150 psig | 1/16 | NA | Fabricator |
| 7777 | 03 | 0003 | Section VIII (Pressure Vessel) Div. 3 (Extreme pressures or impulse loaded) | Engineered Pressure Systems, Inc. | 2.5 meter Diameter x 7 Meter Long | 1500 bar (3,132,815 psig) | 40 F to 140 F | 1  2” rupture disc | 1/16 | NA | Fabricator |
| 5751 | 50 | 0001 | Section X, (Fiber-reinforced or plastic)  RTP-1 | B&D Plastics, LLC | 5,800 gallon | 15 psig | 140 F | 1 each  2 inch  15 psig set | 1/16 | NA | Fabricator |
| 47 | 03 | 0170 | Section XII (Transport Tanks) | Gardner Cryogenics  Liquid Helium Semi-Trailer | 15,000 gallons  175-40 | 200 psig | 4 K to 300 K | 200 psig  2 outer rupture discs (200 psig)  2 annulus rupture discs (15 psig) | 1/16 | NA | Fabricator |

**Requestor and Approval**

|  |  |
| --- | --- |
| Requestor Name/Z Number (no signature) | DPSO or CPSO[[3]](#footnote-3) Name/Z No./Signature/Date |
|  |  |

1. Recommend minimum 1/16 inch (0.0625 inch) or code minimum if greater [↑](#footnote-ref-1)
2. NFPA 85 applies to boilers greater than or equal to 12,500,000 BTU/hr.; CSD-1 applies to lower than 12,500,000 BTU/hr. [↑](#footnote-ref-2)
3. Approvers are shown in [ASM Form 410](https://asmdocs.lanl.gov/docs/Forms%20%20General/Goods%20or%20Services%20Requiring%20Special%20Review%20-%20Approval.doc) (Cat 1). [↑](#footnote-ref-3)