

**Owners Inspection Requirements by Code and Standard**

Welding to codes and standards listed below may require inspection by CM-CE approved LANL Owners Inspector; see GWS 1-02 Section 5.8.

<b>Code or Standard</b>	<b>Reference Paragraph</b>	<b>Owners Required Inspections</b>	<b>Additional Requirements</b>
<b>API 1104</b>	3.2.3 – & Numerous other ref’s to “Company”	The “Company” must approved WPS/PQR, Welder Qualification and identify method & extent of testing, review & accept inspections and in addition has numerous options they can authorize. [2005]	The owner company or the engineering agency in charge of construction. The company may act through an inspector or another authorized representative.
<b>ANSI B31.1</b>	136.1	Prior to initial operation, a piping installation shall be inspected to assure compliance with the engineering design and with the material, fabrication, assembly, examination, and test requirements of this Code. [2004]	Inspection is the responsibility of the Owner and may be performed by employees of the Owner or a party authorized by the Owner
<b>ANSI B31.2</b>	N/A	None [1968]	None
<b>ANSI B31.3</b>	340.1	It is the owner’s responsibility, exercised through the owner’s Inspector, to verify that all required examinations and testing have been completed and to inspect the piping to the extent necessary to be satisfied that it conforms to all applicable examination requirements of the Code and of the engineering design. [2004]	The owner’s Inspector and the Inspector’s delegates shall have access to any place where work concerned with the piping installation is being performed. This includes manufacture, fabrication, heat treatment, assembly, erection, examination, and testing of the piping.
<b>ANSI B31.4</b>	434.2.2	The operating company shall make provision for suitable inspection of pipeline and related facilities by qualified inspectors to assure compliance with the construction specifications. [2006]	
<b>ANSI B31.5</b>	537.2	Prior to operation, it is the owner’s responsibility to inspect a piping system to the extent necessary to assure compliance with the engineering design, and with the material, fabrication, assembly, examination, and testing requirements of this Code. [2004]	The Inspector or Delegate shall have access to any place where work concerned with the piping is being performed. When the work is not performed on the owner’s premises, the Inspector’s access is subject to negotiation with the manufacturer or fabricator.
<b>ANSI B31.8</b>	N/A	None [2003]	None

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<b>Code or Standard</b>	<b>Reference Paragraph</b>	<b>Owners Required Inspections</b>	<b>Additional Requirements</b>
<b>ANSI B31.9</b>	936.1	Prior to initial operation, it is the owner’s responsibility to verify that all required examination and testing have been completed and to inspect the piping, or have it inspected, to the extent necessary to satisfy himself that it conforms to all applicable requirements of this Code and the engineering design. [2004]	The owner and his representatives shall have access to any place where work concerned with the piping is being performed. This includes manufacture, fabrication, assembly, erection, examination, and testing of the piping.
<b>ASME BPVC</b>	various	ASME Code distinguishes between “examination” and “inspection.” Inspection is the responsibility of the Owner and may be performed by employees of the Owner or a party authorized by the Owner, except for the inspections required by Authorized Inspectors [2007]	All ASME Code stamped vessels, components & systems shall be welded on only by contractors who hold current ASME Authorized Code Stamps after notification and approval of the LANL WPA & CM-CE.
<b>AWS D1.1</b>	1.3.3.2 & 6.1.2.2	“Verification Inspector” shall be defined as the duly designated person who acts for, and in behalf of, the Owner or Engineer on all inspection and quality matters specified by the Engineer. [2006]	Verification Inspection. This type of inspection and testing shall be performed and their results reported to the Owner and Contractor in a timely manner to avoid delays in the work. Verification inspection and testing are the prerogatives of the Owner who may perform this function or, when provided in the contract, waive independent verification, or stipulate that both inspection and verification shall be performed by the Contractor.
<b>AWS D1.2</b>	5.1.1 & 5.1.2	The Verification Inspector is the duly designated person who acts for, and in behalf of, the Owner or Engineer on all inspection and quality matters within the scope of the contract documents. [2003]	Verification inspection and testing is the prerogative of the Engineer (Owner) who may perform this function or, when provided in the contract, waive independent verification, or stipulate that both erection and verification inspections shall be performed by the [Subcontractor].
<b>AWS D1.3</b>	N/A	None [2008]	None
<b>AWS D1.4</b>	N/A	None [2005]	None
<b>AWS D1.5</b>	6.1.2.2 & 6.1.2.3	The QA Inspector shall be the duly designated person who acts for and on behalf of the Engineer and Owner on all matters within the scope of the contract documents and the limit of authority delegated by the Engineer. [2002]	QA shall be the prerogative of the Engineer. The Engineer should perform inspection and testing necessary to verify that an acceptable product is being furnished as specified in the contract documents.

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<b>Code or Standard</b>	<b>Reference Paragraph</b>	<b>Owners Required Inspections</b>	<b>Additional Requirements</b>
<b>AWS D1.6</b>	1.3.5.2 & 6.1.1.2	Verification Inspector. The duly designated person who acts for, and in behalf of, the Owner or Engineer on all inspection and quality matters specified by the Engineer. [2007]	Verification is the prerogative of the owner. The owner may perform inspection and testing necessary to verify that an acceptable product is being furnished in accordance with the provisions of the contract documents.
<b>AWS D1.8</b>	7.1 & 7.3	The Quality Assurance Plan shall identify the specific Quality Control and Quality Assurance tasks to be performed on the project respectively by the Contractor and the Quality Assurance (QA) Agency. The Contractor and Quality Assurance Agency shall perform those tasks as identified in the Quality Assurance Plan. [2005]	The QA Agency shall perform work in accordance with a Written Practice.
<b>AWS D9.1</b>	N/A	None. [2006]	None
<b>AWS D14.1</b>	10.2.1 & 10.2.5	A representative designated by the Owner, when required by the contract, shall verify that all fabrication by welding is performed in conformance to the requirements of this specification. At their discretion, Owners, or their representatives, may waive verification of welding and fabrication inspection. [2005]	The representative shall have the option of performing all, or any part of, the functions set forth in 10.3, 10.4, and 10.5.
<b>AWS D14.3</b>	N/A	None. [2000]	None
<b>AWS D14.4</b>	N/A	None. [2005]	None
<b>AWS D14.5</b>	N/A	None. [1997]	None
<b>AWS D14.6</b>	8.1.1	The Inspector designated by the Purchaser shall determine that fabrication by welding is performed in conformance to requirements of this specification. [2005]	
<b>IBC</b>	109.1 - 109.3.10  &	Construction or work for which a permit is required shall be subject to inspection by the building official and such construction or work shall remain accessible and exposed for inspection purposes until approved.  Where application is made for construction as described in this section, the owner or registered design professional in	The building official, upon notification, shall make the inspections set forth in Sections 109.3.1 through 109.3.10.

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<b>Code or Standard</b>	<b>Reference Paragraph</b>	<b>Owners Required Inspections</b>	<b>Additional Requirements</b>
	1704.1	responsible charge acting as the owners agent shall employ one or more special inspectors to provide inspections during construction on the types of work listed under section 1704. [2003, 2006]	The special inspectors shall be a qualified person who shall demonstrate competence, to the satisfaction of the building official, for inspection of the particular type of construction or operation requiring special inspection