**Pipe system essentials:**

<table>
<thead>
<tr>
<th>Term</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Take off</td>
<td>• Branch run</td>
</tr>
<tr>
<td>Stub in</td>
<td>• Branch fitting connection made to header by direct attachment of branch</td>
</tr>
<tr>
<td>Branch reinforcement</td>
<td>• Material added in the vicinity of a branch opening to restore the mechanical integrity of the pipe</td>
</tr>
<tr>
<td>NPS</td>
<td>• Nominal pipe size</td>
</tr>
<tr>
<td>Pipe support</td>
<td>• Support elements which serve to maintain the structural integrity of the piping system, these are typically non-linear elements</td>
</tr>
<tr>
<td>Spring support</td>
<td>• Support provided by an element composed of a spring assembly, these are linear support elements</td>
</tr>
<tr>
<td>Snubber</td>
<td>• Support provided by an element composed of a non-linear, damping element</td>
</tr>
<tr>
<td>Category D</td>
<td>• Within reference of B31.3, a service classification</td>
</tr>
<tr>
<td>Category M</td>
<td>• Within reference of B31.3, a service classification</td>
</tr>
</tbody>
</table>
**ASME B36 Piping Component Standards**

Piping standards developed by the American Society of Mechanical Engineers / American National Standards Institute:

B36.10 Welded and Seamless Wrought Steel Pipe

B36.19 Stainless Steel Pipe

Other ASME or ANSI

B73.1 Horizontal, End Suction Centrifugal Pumps

B73.2 Vertical In-line Centrifugal Pumps

B133.2 Basic Gas Turbine

**2.2 NEPA Codes**

National Electrical Protection Association

Piping covering fire protection systems using water, carbon dioxide, halon, foam, dry chemical and wet chemicals.

**NFC - NFPA Codes**

National Fire Code / National Fire Protection Association

NFPA 99 Health Care Facilities Code

**2.3 CSA Standards**

Canadian Standards Association

CSA Z662 - 94 Oil & Gas Pipeline Systems

This standard supercedes these standards:

- CAN/CSA Z183 Oil Pipeline Systems
- CAN/CSA Z184 Gas Pipeline Systems
- CAN/CSA Z187 Offshore Pipelines

Other CSA Piping and Component Codes:

B 51 Boilers and Pressure Vessels

B 53 Identification of Piping Systems

B 52 Mechanical Refrigeration Code

B 63 Welded and Seamless Steel Pipe

B 137.3 Rigid Poly-Vinyl Chloride (PVC) Pipe

B 137.4 Polyethylene Piping Systems for Gas Service