Fabricated Assemblies – Potential Fusion Concerns

PUBLIC SERVICE COMMISSION OF WEST VIRGINIA

2025 PIPELINE SAFETY SEMINAR

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§ 192.271 Scope. (Subpart F – Joining of Materials Other than by Welding)

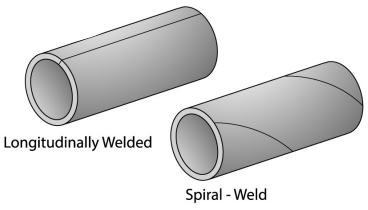
(a) This subpart prescribes minimum requirements for joining materials in pipelines, other than by welding.

(b) This subpart does not apply to joining during the manufacture of pipe or pipeline components.

§ 192.221 Scope. (Subpart E – Welding of Steel in Pipelines)

(a) This subpart prescribes minimum requirements for welding steel materials in pipelines.

(b) This subpart does not apply to welding that occurs during the manufacture of steel pipe or steel pipeline components.



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Advisory Bulletin PI-11-0017 (June 12, 2012)

- "… The exception in 192.221.(b) is referring to the manufacture of pipe and pipeline components. Manufactured pipeline components are individual elbows, tees, valves, flanges and fabricated fittings. Fabricated assemblies such as a meter skid, compressor skid, pipe launcher/receiver skid unit, or spools of pipe fall under the § 192.3 definition of "Pipeline" and are not manufactured pipeline components. Fabricated assemblies must be constructed in accordance with Part 192 requirement. …" (b) This subpart does not apply to joining during the manufacture of pipe or pipeline components.

  - **Components** (elbows, flanges, tees, fittings, etc.,) – must be manufactured and tested to a specification listed in Part 192
  - **Fabricated assemblies** must be constructed in accordance with Part 192 requirements:
    - Welded or joined by a qualified individual(s) using a qualified procedure. Applies to welding steel, fusion of plastic, etc.,.
    - Pressure tested in accordance with 192 requirements for the MAOP of the systems where the assemblies will be installed.

GTI - Material Supplier Quality Assurance Program

- The program was created to supplement and enhance imperfect ISO 9001 quality systems and regulatory requirements to elevate quality by:
  - Standardizing and enhancing product specifications, including best practice guidelines, to create consistency and reduce variability.
  - Raising the bar of overall material quality and system integrity by collaborating as a group and creating an industry-standard approach to material quality assurance processes.
- The current phase will deal with updating and improving the purchasing specifications and procedures previously created and assist operators in implementing these improved specifications within their organizations.
- For example, a requirement "to comply with a federal code of 49 CFR 192 regarding the qualification of joining procedures and operators" will be added to every product type specification for a manufacturer that fabricates metallic and plastic components.