

RES Services LLC



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The background of the slide is a photograph of a construction site. It shows several large, grey pipes lying on a bed of sand. Some pipes are stacked, while others are scattered. The lighting is bright, suggesting an outdoor setting. The overall scene is somewhat blurred, focusing attention on the text overlaid on top.

Review Handout

PIPELINE SAFETY LAWS

49 CFR Part 192

Gas



49 CFR Part 192 (Retroactive Subparts)

A General

I Requirements for Corrosion Control

K Upgrading

L Operations

M Maintenance

O Gas Transmission IM (new)

P Distribution IM (new)

Subpart A – General

<u>Section No.</u>	<u>Title</u>
192.1	Scope
192.3	Definitions
192.5	Class locations
192.7	Incorporation by reference
192.8	How are onshore gathering lines & regulated onshore gathering lines determined?

Subpart A – General (Cont'd)

<u>Section No.</u>	<u>Title</u>
192.9	What requirements apply to gathering lines?
192.11	Petroleum gas systems
192.13	What general requirements apply to pipelines regulated under this part?
192.14	Conversion to service subject to this part

Subpart B – Materials

<u>Section No.</u>	<u>Title</u>
192.51	Scope
192.53	General
192.59	Plastic Pipe
192.63	Marking of Materials

Subpart C – Pipe Design

<u>Section No.</u>	<u>Title</u>
192.103	General
192.121	Design of Plastic Pipe
192.123	Design limitations for Plastic Pipe

Subpart D – Design of Pipeline Components

<u>Section No.</u>	<u>Title</u>
192.145	Valves
192.159	Flexibility
192.161	Support and Anchors
192.179	Transmission line valves
192.181	Distribution line valves

Subpart D – Design of Pipeline Components (Cont'd)

<u>Section No.</u>	<u>Title</u>
192.191	Design pressure of plastic fittings
192.193	Valve installation in plastic pipe
192.195	Protection against accidental over-pressuring
192.201	Required capacity of pressure relieving and limiting stations

Subpart F – Joining of Materials Other than by Welding

<u>Section No.</u>	<u>Title</u>
192.271	Scope
192.273	General
192.281	Plastic pipe
192.283	Plastic pipe: Qualifying joining procedures
192.285	Plastic pipe: Qualifying persons to make joints
192.287	Plastic pipe: Inspection of joints

Subpart G – General Construction Requirements for Transmission Lines & Mains

<u>Section No.</u>	<u>Title</u>
192.303	Compliance with specifications or standards
192.305	Inspection: General
192.307	Inspection of materials
192.311	Repair of Plastic Pipe

Subpart G – General Construction Requirements for Transmission Lines & Mains (Cont'd)

<u>Section No.</u>	<u>Title</u>
192.317	Protection from hazards
192.321	Installation of Plastic Pipe
192.323	Casing
192.325	Underground Clearance
192.327	Cover

Subpart H – Customer Meters, Service Regulators & Service Lines

<u>Section No.</u>	<u>Title</u>
192.351	Scope
192.361	Service lines: Installation
192.367	Service lines: General requirements for connections to main piping
192.375	Service lines: Plastic
192.381	Service Lines: Excess flow valve performance standards
192.383	Excess flow valve customer notification

Subpart I – Requirements for Corrosion Control

This section does **NOT** pertain to plastic piping systems because plastic piping components do not corrode. However, the following section may apply to electrically insulated metal fittings with metal components used in plastic systems that may require corrosion control depending on their design.

<u>Section No.</u>	<u>Title</u>
192.455	External corrosion control: Buried or submerged pipelines installed after July 31, 1971.
192.459	External corrosion control: Examination of buried pipeline when exposed.

Subpart J – Test Requirements

<u>Section No.</u>	<u>Title</u>
192.503	General requirements
192.509	Test requirements for pipelines to operate below 100 psig
192.511	Test requirements for service lines
192.513	Test requirements for plastic pipelines
192.517	Records

Subpart K – Uprating

<u>Section No.</u>	<u>Title</u>
192.553	General requirements.
192.557	Uprating: Steel pipelines to a pressure that will produce a hoop stress less than 30% of SMYS; plastic, cast iron and ductile iron pipelines.

Subpart L – Operations

<u>Section No.</u>	<u>Title</u>
192.603	General provisions
192.605	Procedural manual for operations, maintenance and emergencies
192.613	Continuing Surveillance
192.614	Damage prevention program
192.615	Emergency plans
192.616	Public awareness
192.617	Investigation of failures

Subpart L – Operations (Cont'd)

<u>Section No.</u>	<u>Title</u>
192.619	Maximum allowable operating pressure: Steel or plastic pipelines
192.621	Maximum allowable operating pressure: High-pressure distribution systems
192.623	Maximum and minimum allowable operating pressure: Low-pressure distribution systems
192.627	Tapping pipelines under pressure
192.629	Purging of pipelines

APPENDICES

The background of the slide is a photograph of a construction site. It shows a large pile of brown soil in the foreground. In the middle ground, there are several grey plastic pipes of various sizes and shapes, some lying horizontally and others curved. A cardboard box is partially visible among the pipes. In the background, there are more pipes and some construction equipment, all slightly out of focus.

Title

Appendix B Qualification of pipe

Review Handout

PIPELINE SAFETY LAWS

49 CFR Part 195

Liquid



49 CFR Part 195 (Retroactive Subparts)

A General

B Reporting and SRCs

F Operations and Maintenance

H Corrosion Control

A construction site with a large pile of brown soil in the foreground. In the background, several large, light-colored pipes are laid out on the ground. Some of the pipes are connected to manhole covers that are partially open. The scene is brightly lit, suggesting a sunny day.

QUESTIONS & DISCUSSIONS