

AMERICAN SOCIETY OF SAFETY PROFESSIONALS



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SAFETY PROFESSIONALS

COMMUNITY

- **OIL, GAS, MINING AND MINERAL RESOURCE PRACTICE SPECIALTY**
 - Local meetings quarterly
 - Next meeting at 1PM in this very room
 - <https://community.assp.org/PS/oil-gas-mining-mineral-resources>
 - LinkedIn ASSP's Oil, Gas, Mining and Mineral Resources Practice Specialty
 - 2 Upcoming webinars:
 - Last quarter of 2019 – LONE WORKER PROTOCOLS
 - First quarter of 2020 – H2S
 - Sponsoring several presentations and a round table discussion at Safety 2020



KAHUNA VENTURES
MIDSTREAM PROJECT EXECUTION

Update to DOT-PHMSA Regulations

- Pipeline and Hazardous Materials Safety Administration (PHMSA)



➤ 3 main updates

- Pipes Act of 2019
- Issuance of new safety rules by PHMSA
- Recommendations by Gas Pipeline Advisory Committee



Pipes Act of 2019

- *PHMSA funding expired on September 30*
- *HR 3432 – House version out of committee on July 26*
- *S2299 – Senate version out of committee on July 31*



➤ Key Provisions

- Remove cap and allow for inflation adjustment on civil penalties under law (\$213,268 to \$218,647 per violation per day).
- Allow for criminal penalties under law for “Knowingly and willfully”.
- Required information and report sharing with local emergency agencies of all liquid pipeline information.
- Required information and report sharing with local emergency agencies of all gas distribution pipeline information.
- PE approval of liquid natural gas system plans and changes.



➤ Key Provisions (cont.)

- Inclusion of LNG systems in plan requirements
- Automatic shut-off valves required on hazardous liquid pipelines in High Consequence Areas.
- **Prioritization of other methods over Confirmatory Direct Assessment.**
- **Requirement for PHMSA to finalize gathering regulations by June 2020.**



Confirmatory Direct Assessment

- Allowed method of pipeline integrity evaluation in 49 CFR 192.937
- Allows for CDA to evaluate internal or external corrosion of the pipeline by use of a formal risk assessment of already required collected data:
 - Pipeline Patrols
 - Leakage Survey
 - Exposed Pipe Inspection
 - Cathodic Protection Surveys
 - Valve Inspections
 - Abnormal Operating Condition Response
 - Third Party Damage Response



Other Continual Assessment Methods

- Internal Inspection Tools
- Pressure Testing
- Equivalent Technology



- 20 or more buildings intended for human occupancy are within the impact radius;
- A facility with persons who are mobility-impaired, confined, or hard to evacuate is within the impact radius;
- A place where people gather for recreational and other purposes is within the impact radius;
- An Unusually Sensitive Area is within the impact radius.



Unusually Sensitive Areas

- A drinking water or ecological resource area that is unusually sensitive to environmental damage from a hazardous liquid pipeline release



New Safety Rules

- Issued October 1, 2019, effective July 1, 2020
 - Gas Transmission Rule update
 - Requires operators of gas transmission lines constructed before 1970, or not having established MAOP to reconfirm MAOP
 - Expands integrity management requirements to lines with MAOP > 30% SMYS or within a Moderate Consequence Area
 - Hazardous Liquid Rule update
 - Extends leak detection requirements to all non-gathering hazardous liquid pipelines
 - Requires inspection of hazardous liquid pipelines after an extreme weather event or natural disaster



New Safety Rules

- Adds Enhanced Emergency Order Procedures
 - Allows PHMSA to impose emergency restrictions or other safety measures



Proposed Additional by GPAC

➤ **Currently Covered Pipelines**

- Transmission lines
- Distribution lines
- Gathering lines Class 2, 3 and 4 locations



Proposed Additional by GPAC

- Regulate Class 1 gathering lines ≥ 12 inches in diameter with a Maximum Allowable Operating Pressure (MAOP) $> 20\%$ Specified Maximum Yield Strength (SMYS)



Proposed Additional by GPAC

- Update gas gathering line definition
 - Per API RP 80, which is currently under revision

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Source: API Standards Staff Committee, 2005
Title: Recommended Practice 80 (RP 80)

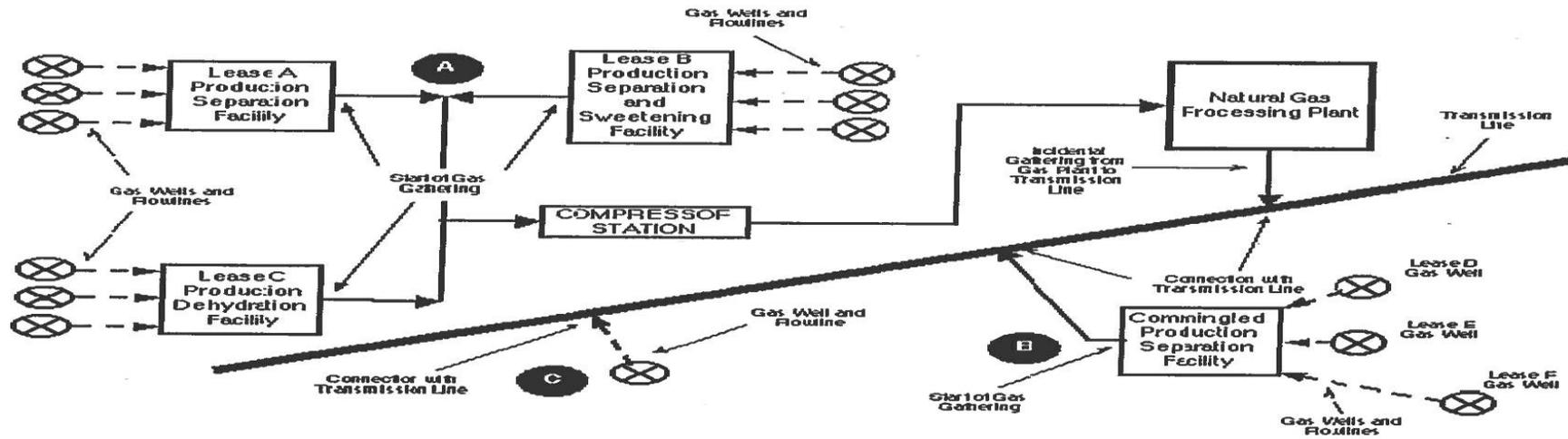


Figure B-1—Examples of Common Gas production and Gathering Operations

GUIDELINES FOR THE DEFINITION OF ONSHORE GAS GATHERING LINES

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Proposed Additional by GPAC

- Establish safety standards for non-regulated gas gathering lines



Thank You!

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