



Induced Seismicity Update

Ed Steele,

The State Oil and Gas Regulatory Exchange (the Exchange) is a collaborative effort of the Interstate Oil and Gas Compact Commission and the Ground Water Protection Council. Both organizations comprise memberships of state governments.

The Exchange facilitates multi-state collaboration and innovative regulatory solutions for oil and natural gas producing states. States regulatory programs have been at the forefront of oil and gas exploration and production since the 1930s.

As a collaboration of state governments, the Exchange is in the unique position to coordinate efforts between the federal government and states to ensure that advances in regulatory regimes are efficient and effective.

Mission

To assist states' efforts to continuously improve their oil and gas regulatory programs.



Ambiunt Environmental and Regulatory

2015/2017 Primers:

Potential Injection-Induced Seismicity
Associated with Oil & Gas Development:
A Primer on Technical and Regulatory
Considerations Informing Risk Management
and Mitigation

IS Report Update 2020:

Potential Induced Seismicity Guide:
A Resource of Technical and Regulatory
Considerations Associated with Fluid
Injection

2015 Primer:

Editorial Committee - 11 members

Independent Review Panel – 6 members

Regulatory Work Group – 23 members

Technical Advisory Group – 40 members

2017 Primer Update:

Editorial Committee – 8 members

No Independent Review Panel

Regulatory Work Group – 23 members

Technical Advisory Group – 43 members

2020 Update

Editing by Workgroups

Workgroup members – 25

Technical editor – Mike Nickolaus

Chapter 1 – Understanding Induced Seismicity
Chapter 2 – Assessing Potentially Injection-Induced Seismicity
Chapter 3 – Risk Management and Mitigation Strategies
Chapter 4 – Considerations for External Communication and Engagement
Appendix A – Relevant Earthquake Science
Appendix B – Class I and Class II Injection Wells
Appendix C – Induced Seismicity Case Studies
Appendix D – Design and Installation of Seismic Monitoring Networks
Appendix E – Methods for Estimating Reservoir Pressure Changes Associated with Injection
Appendix F – Data Collection and Interpretation
Appendix G – State Summaries
Appendix H – Carbon Dioxide Geologic Storage and Induced Seismicity
Appendix I – Understanding Hydraulic Fracturing
Appendix J - Glossary
Appendix K - References