

STRONGER

Update of Activities

- *Meeting the Challenges of U.S. Oil & Gas Development*
- *Collaboration to Improve the Regulatory Environment*

Interstate Oil and Gas Compact Commission
State Review Committee
Monday, May 20, 2013



STRONGER Background

- 1999
 - STRONGER formed to manage state review process begun by IOGCC
 - Articles of incorporation filed in D.C. – 501(c)(3)
 - Bylaws adopted
 - Officers elected
 - Guidelines revision committee established
 - Funding received from EPA, DOE & API
 - STRONGER Board
 - Stakeholder representatives – 3 each state, industry, and environmental
 - Staggered terms
 - Chairmanship rotates between stakeholders

STRONGER Background (cont.)

- 2000
 - Guidelines revised to include performance measures
 - State reviews resumed
- 2003
 - Developed review “lite” for small state programs
- 2005
 - Guidelines revised to include spill prevention and stormwater management, performance measures moved to program administration



Recent STRONGER Activities

Hydraulic Fracturing Guidelines

- 2010
 - Hydraulic fracturing guidelines developed and used in reviews on 7 states
 - 6 states (PA, OH, OK, LA, CO, AR) volunteered for targeted HF reviews
 - Used in full initial review (SC)
- 2011
 - Several issues identified by review team and STRONGER Board
 - Management of source water (recycling/reuse, alternate sources, etc.)
 - Criteria for groundwater protection through proper well construction
 - Groundwater monitoring
 - Monitoring annular pressures during hydraulic fracturing
- 2012
 - Hydraulic fracturing guidelines revision workgroup formed
 - Proposed revised guidelines sent to STRONGER Board

Hydraulic Fracturing Guidelines (cont.)

- 2012 - 2013
 - STRONGER Board shared draft with federal agencies (EPA, DOE, BLM) for review & comment
 - Workgroup considered comments from federal agencies and sent revised draft to STRONGER Board with recommendation for broad distribution for public comments
 - Distributed to State Directors, API, IPAA and 2 environmental distribution lists
 - Comments received from 6 organizations

Hydraulic Fracturing Guidelines (cont.)

- 2013 (cont.)
 - Comments considered by Workgroup and some changes made
 - Workgroup forwarded proposed final draft to STRONGER Board recommendation to approve for publication and distribution
 - STRONGER Board approved on May 13, 2013
 - Revised hydraulic fracturing guidelines are being posted on STRONGER website and being prepared for distribution and use

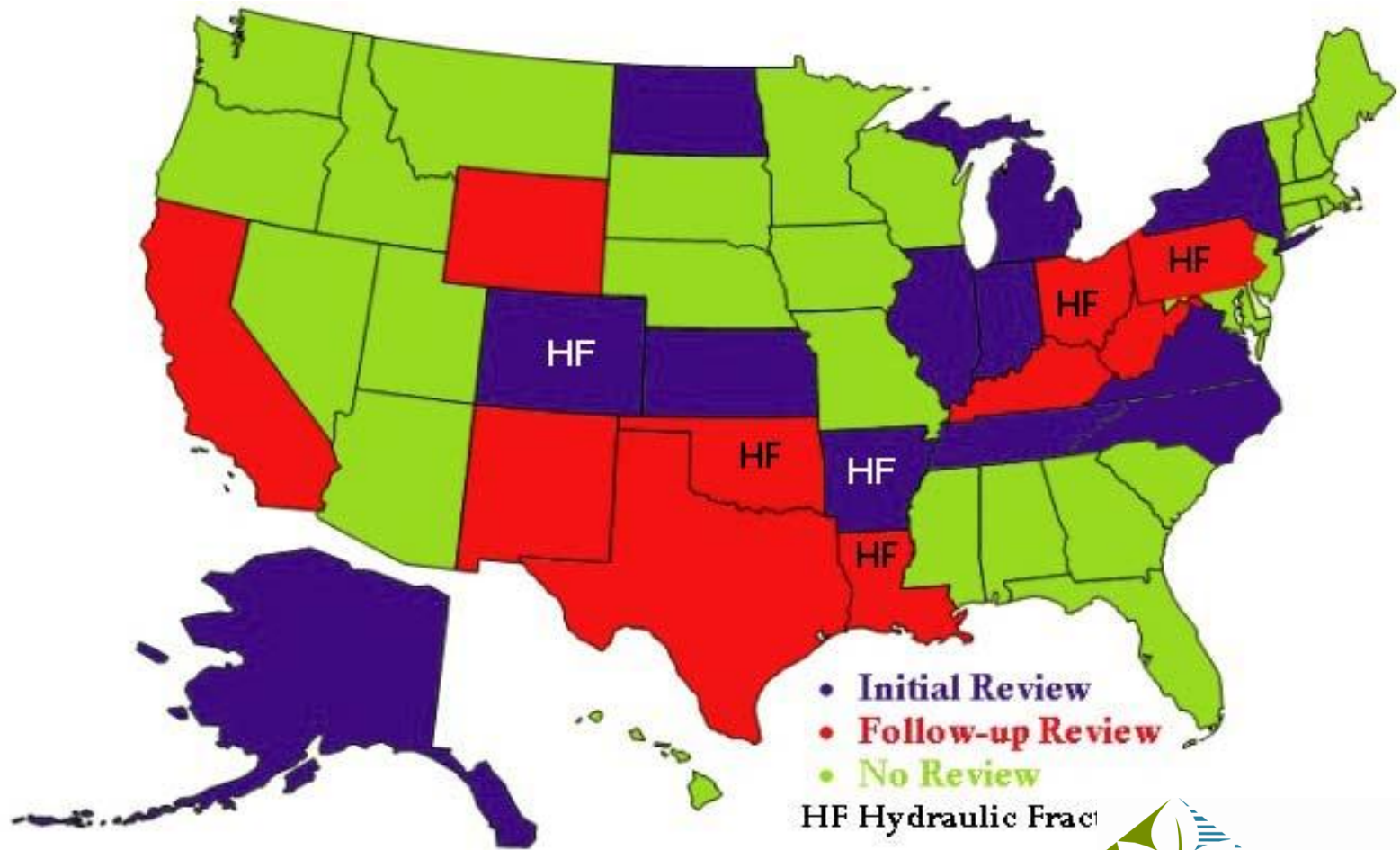
Hydraulic Fracturing Guidelines Revisions

- Management of source water supply
- Groundwater protection casing & cementing
- Groundwater monitoring to set baseline
- Annular pressure monitoring during hydraulic fracturing
- Pits and impoundments
- Public disclosure of chemicals
- Disposal/management of flowback
- Program coordination for interstate/regional issues

Air Quality Guidelines

- All Guidelines documents (1990, 1995, 2000, 2005, 2010) recommended future consideration of air issues in the guidelines
- 2010 – Hydraulic Fracturing Guidelines Revisions Workgroup recommended that STRONGER Board consider air issues associated with hydraulic fracturing
- 2012 – STRONGER Board decided to look at air
- More information to be presented by STRONGER Board member Wilma Subra

State Reviews



- Initial Review
 - Follow-up Review
 - No Review
- HF Hydraulic Fracturing

State Reviews

- 7 reviews (6 targeted HF, 1 full)
- On-going discussions with several other states
- Pennsylvania review
 - Scheduled for May 28 – 31, 2013
 - Review team and official observers selected
 - State completed questionnaire
 - Full review to address new law and rules
 - More information to be presented by STRONGER Board member Scott Perry



STRONGER

Update of Activities

- Questions???

- Contact: **Jim Erb**

1990 Rosedale Avenue

Middletown, PA 17057

Telephone 717-576-2877

Email jeerb@comcast.net

