

Carbon Sequestration leadership Forum

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Risk Assessment Task Force
Technical Group Meeting
Bergen, Norway
12 June 2012

Grant Bromhal (USA)



Outline

- Background of RATF
- Review of Phase I
- Overview of Sept 2011 RATF meeting
- Status of Phase II Activities
- Discussion of Next Steps



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Background of RATF

- **Initiated at London (Nov 2006)**
 - Identification of potential risks
 - Examine risk-assessment standards, procedures, and research activities relevant to unique risks associated with the injection and long-term storage of CO₂
- **Phase I report complete (fall 2009) (CSLF-T-2009-04)**
- **Phase II initiated fall 2010**



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Review: Phase I TG Recommendations

- **Risk assessment should be considered in the context of stakeholder outreach and communication.**
 - Recommendation passed to PG;
Communication Task Force produced 5 outreach documents (approved by TG in Pau, Mar 2010) **included as Appendix in Phase II report**
- **The link between risk assessment and liability should be recognized and considered.**
 - Recommendation passed to PG;
Joint task force formed (Warsaw meeting, Oct 2010);
Action plan submitted to Secretariat (Beijing meeting, Sept 2011)
Joint task force workshop planned for CCS stakeholders (Paris, July 2012)
- **Storage integrity goals (re: acceptable risk levels) for sites should be discussed**
 - White paper prepared on “Performance based standards...”
White paper **included as Appendix in Phase II report**



Review: Phase I TG Recommendations

- **Gap assessment to identify CCS-specific tools and methodologies that will be needed to support risk assessment**
 - Leverage IEAGHG Risk Assessment Network (Pau—Mar 2010)
 - Develop two short overviews (summer 2011, **included in Phase II report**)
 - Risk needs relative to EOR
 - Risk issues relative to project phases
- **Feasibility assessment of developing general technical guidelines for risk assessment that could be adapted to specific sites & local needs.**
 - Recommendation was **tabled by RATF** pending outcomes from joint task force
- **Gather information on what other organizations are doing in the area of technical risk (recommended Warsaw, Oct 2010)**
 - **tabled for Phase II by RATF**



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RATF Meeting (19 September 2011)

- **Interactions with IEAGHG Risk Assessment Network**
 - Outbriefs from several workshops; presentation of CSLF to Network
 - Pau Meeting Summary (June 2011);
- **Review of Phase II Status**
- **Proposed joint PG–TG task force on risk and liability**



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Completion of Phase II Activities (Task 1):

- ***A gap assessment to identify CCS-specific tools and methodologies that will be needed to support risk assessment.***
 - Develop short overview of potential gaps relative to CO₂ storage and EOR operation
 - Draft developed by chair with input from Australia, Canada, France, Saudi Arabia, and GCCSI (done)
 - Develop short overview of technical risk-assessment considerations related to various phases of a project (development, injection, post-injection, long-term)
 - Draft developed by chair with input from Canada and France (done)

Both documents circulated to Task Force (done)

Received comments back from Task Force (done)

Integrated with RATF Phase II Report

- Circulated Phase II Report to RATF for Comments (done)
- Received comments back from RATF (done)

Submitted Phase II Report to Secretariat for circulation to TG (completed May 2012)



Completion of Phase II Activities (Task 2):

- ***Assessing the feasibility of developing general technical guidelines for risk assessment practices that could be adapted to specific sites and local needs***
 - Complete reviews of white paper on “*Performance Based Standards...*”
 - Current draft to be re-circulated to Task Force by chair (**done**)
 - Comments back from Task Force to France (D. Bonijoly) (**done**)
 - Document sent to technical editor (**done**)
 - Integrate with RATF Phase II Report
 - Circulate Phase II Report to RATF for Comments (**done**)
 - Receive comments back from RATF (**done**)
 - Submit Phase II Report to Secretariat for circulation to TG (**completed May 2012**)



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Convert Phase II report into journal article

- Submission to the International Journal of Greenhouse Gas Control by the end of the year



Concept Paper for Joint PG–TG Task Force on Risk and Liability

Assessment for Geologic Storage of Carbon Dioxide: A Proposed Work Plan for the CSLF Proposed

1. Establish CSLF Risk and Liability Task Force composed of representatives from PG Financing Task Force and TG RATF
2. Perform analyses including (a) a critical review of prior work on liability, and (b) a comparison of liability frameworks that have so far been established
3. Interview a sample of key experts from the different disciplines to identify their perspectives on risk, damages and liability. Evaluate the similarities and differences among these stakeholders
4. Conduct facilitated workshops to identify gaps and methods to address
5. Propose a path forward (phase II) to the PG and TG (joint meeting 2012)

RATF recommends TG support this proposal at the joint PG–TG meeting (Guthrie).



Next steps.....

Recommendation: Discontinue RATF