

Carbon Sequestration leadership Forum

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Risk Assessment Task Force

Technical Group Meeting

Beijing, China

19 September 2011

George Guthrie (USA)



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**



Background of RATF

- **Initiated at London (Nov 2006)**
 - 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**



Review: Phase I 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)
- **The link between risk assessment and liability should be recognized and considered.**
 - Recommendation passed to PG;
Joint task force formed (Warsaw meeting, Oct 2010);
Proposed action plan submitted to Secretariat (Beijing meeting, Sept 2011)
- **Storage integrity goals (e.g., acceptable risk levels) for sites should be discussed**
 - White paper prepared on “Performance based standards...”



Review: Phase II Tasks

1. **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)
 - Risk needs relative to EOR
 - Risk issues relative to project phases
2. **Feasibility assessment of developing general technical guidelines for risk assessment that could be adapted to specific sites & local needs.**
 - Complete reviews of white paper on “Performance-Based Standards for CO₂ Site Performance, Safety and Integrity”
3. **Gather information on what other organizations are doing in the area of technical risk (recommended Warsaw, Oct 2010) (tabled for phase II)**

Phase II report planned for completion as room document at Bergen.

Phase III role/need not yet defined.



Completion of Phase II Activities: Risk & EOR (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 relative to EOR operation
 - Draft developed by chair with input from Australia, Canada, France, Saudi Arabia, and GCCSI (done)
 - Circulated to Task Force (Beijing meeting; electronically 26 Sept 2011)
 - Receive comments back from Task Force (14 Oct 2011)
 - Integrate with RATF Phase II Report
 - Circulate Phase II Report to RATF for Comments (4 Nov 2011)
 - Receive comments back from RATF (12 Jan 2012)
 - Submit Phase II Report to Secretariat for circulation to TG (spring 2012)



Completion of Phase II Activities: Overview of Risk and Project Phases (Task 1)

- ***A gap assessment to identify CCS-specific tools and methodologies that will be needed to support risk assessment.***
 - 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)
 - Circulate to Task Force (Beijing meeting; electronically 26 Sept 2011)
 - Receive comments back from Task Force (14 Oct 2011)
 - Integrate with RATF Phase II Report
 - Circulate Phase II Report to RATF for Comments (4 Nov 2011)
 - Receive comments back from RATF (12 Jan 2012)
 - Submit Phase II Report to Secretariat for circulation to TG (spring 2012)



Completion of Phase II Activities: Performance Based Standards (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 (4 Nov 2011?)
 - Receive comments back from RATF (12 Jan 2012?)
 - Submit Phase II Report to Secretariat for circulation to TG (spring 2012)



*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.



Summary

- ***Phase II anticipated for completion by Bergen meeting***
 - Phase III?