

To: Members of the Technical Advisory Group
From: John Etherington, TAG Chair

<p style="text-align: center;">Technical Advisory Group Teleconference 2:00-3:20 pm GMT Thursday 11 December 2014 Approved Minutes</p>

Attendees: John Etherington (Chair), David MacDonald, John Barry, Roger Dixon, Alistair Jones

Observers: Charlotte Griffiths

Apologies: Santosh Adhikari, Leesa Carson, Maksim Saakian, Per Blystad, Michael Lynch-Bell, Danny Trotman, Harikrishnan Tulsidas

Approval of draft agenda

1. The draft agenda was approved.

Draft Minutes of TAG meeting of 8 October 2014

2. The draft minutes of the 8 October 2014 meeting were amended and are attached.

Draft TAG Report on Steve Henley Mineral Case Study – John Barry

3. After reviewing the options defined in the draft review of Henley's issues regards the G-axis, the majority of the TAG supported option 4, that is, to defer any changes to UNECE Energy Series 42 at this time. It was noted that the differences between petroleum and solid minerals use of the G-axis had been recognized in the development of UNFC and there was prior agreement to accommodate this difference at the commodity specific level. It was recognized that, as bridging of additional aligned systems are developed, all aspects of UNFC-2009 guidance will be reviewed including the issues identified in Henley's thorough case study. However, there was general agreement to maintain the current version of UNFC-2009. The TAG commends Henley for his in-depth review and recommendations.

4. The additional issues/recommendations from the Henley case study (items 1-7) documented in the attached TAG review were not discussed in this meeting and email feedback is requested within 2 weeks prior to finalizing our report to the Bureau.

Status Update: New GKZ Petroleum Classification Bridging Document– John Etherington

5. The new Russian Federation petroleum reserves and resources classification (RF-2013) was approved in November 2013 for implementation effective 1 January 2016. On 14 July 2014, the GKZ approached the UNECE requesting a mapping of RF-2013 and UNFC-2009. A formal request to assist in developing a Bridging Document was submitted by the GKZ to the TAG on 21 August 2014. On September 27, John Etherington provided the GKZ the TAG's requirements for bridging the Russian Federation's new 2013 petroleum classification to UNFC-2009.

6. In a conference call with Charlotte Griffiths on October 10, Mr. Igor Shpurov, Director of GKZ, indicated that they wish to accelerate the process with a target of having an

approved document to present to the EGRC at the April 2015 meeting in Geneva. An English translation of an overview description of the RF-2013 classification was delivered on October 31, 2014. We have enquired if more detailed guidelines can be made available to assist in our review.

7. Next steps are for the GKZ to provide an initial draft with preliminary mapping to UNFC-2009. John Etherington will assist a designated GKZ contact by email; this process was initiated on November 10, 2014. Our current opinion is that it may not be practical to complete the Bridging Document, complete a TAG review and obtain Bureau concurrence before the 2015 EGRC session.

Status Update: Renewables Generic Specifications - Alistair Jones

8. A draft of the Renewable Energy Specifications (amended for public comments) and a draft Table of Contents for Commodity-specific Specifications were distributed to the TAG for their comments on December 1, 2014. Also provided was a spreadsheet documenting the responses from the public comment. On December 11, Alistair provided the TAG with a compilation of members' comments on the Renewable Energy Specifications. General TAG response was positive; that is, the specifications were clear and complete. It was noted that as commodity specific specifications are developed we may identify some required amendments to the generic specifications

9. It was noted that there was no TAG comments on the draft Table of Contents for Commodity-specific Specifications that was designed to provide a common structure. TAG members were encouraged to review this document and provide comments by email to Alistair within 2 weeks.

10. Based on comments are received, Alistair will develop a formal TAG response to the Renewables Task Force and the Bureau by the end of year 2014.

11. It was noted that the Renewables Task Force has not yet selected the initial commodity-specific project (Geothermal versus Biomass?) but it is still their intent to complete a draft bridging document for TAG review with the intent to have it approved before the April EGRC meeting.

Status Update: Recipient Reservoirs Study - Per Blystad

12. An early draft bridging document was distributed to the TAG members on December 9 requesting their informal comments to Karin Ask, task force lead, (and copied to full TAG) within the next 2 weeks. This is a preliminary document to get broad feedback and a final bridging document will be provided for a formal TAG review in early 2015.

13. There is some discussion to rebrand this document as "Injection Projects" or "Geological Storage Projects". The task force is still discussing the project scope (gas storage, CO₂ capture, EOR, etc.)

TAG Actions Items from UNECE Self-Evaluation Annex V – 26 March 2014 – Charlotte Griffiths

14. A self-evaluation was undertaken by UNECE in early 2014 to assess the efficiency, effectiveness and relevance of the programme and activities dedicated to support the development and dissemination of UNFC-2009. The evaluation focussed on the development of UNFC-2009 from January 2002 to November 2013. As UNFC-2009 is a globally applicable framework classification for the purpose of this evaluation both UNECE and non-UNECE member States were included. Relevant stakeholders such as industry, international organizations and professional societies and associations were also included. The full report is available on the UNECE website. A number of items were identified for the TAG in the Follow-up Action Plan (see Annex V of the report).

15. Action Item 3: Simplified UNFC Case Study: Educational and interactive tools need to be developed and circulated widely to demonstrate that (i) UNFC-2009 is not overly complex once users have familiarized themselves with the system, and (ii) the added flexibility and granularity provided by the three axes of UNFC offer great added value for resource classification and management. A simplified case study should be prepared, in cooperation with the Technical Advisory Group, illustrating the process of estimating projects on each of three axes and how the information is stored and reviewed.

16. The intent is to provide a very simplified study, not on the scale of the NPD study or the Henley case study. Potentially we could modify Martin Hubbig's Mittleplatte study but there is an issue of data confidentiality. Alistair Jones will discuss developing a simplified generic petroleum case with David Macdonald.

17. Action Item 4: Development of Lessons Learnt and Guidance for UNFC Users: The education and outreach programme of the Expert Group on Resource Classification should be enhanced to ensure that the momentum currently achieved is maintained. Efforts should, in particular, be focused on UNECE countries and testing encouraged since the fewest number of case studies were undertaken in this region. The secretariat, in cooperation with the Communications Sub-Committee, should develop a centralized database of case studies undertaken. The secretariat should work with the Technical Advisory Group and Communications Sub Committee to prepare lessons learnt and/or guidance for users of UNFC.

18. Charlotte Griffiths will proceed to develop the centralized database of case studies undertaken. Given their overview of the UNFC activities, the TAG can identify outstanding issues, lessons learned and propose additional guidance for application of UNFC-2009. This should be part of the TAG's annual report to the Bureau.

19. In order to closely coordinate with the Communications Sub-Committee (CSC), Danny Trotman who is a member of both the TAG and the CSC, has volunteered to assist Charlotte Griffith's in this area.

Any Other Business

20. Two action items were identified in the August 8 TAG meeting for follow-up:

21. The Bureau accepted the TAG recommendations regarding the updates to the CRIRSCO Template and UNFC-2009 Bridging Document and requested that the TAG draft a revision to that document. Roger Dixon provided a draft update to the TAG on December 10 for their comments to be provided within 2 weeks. The final update will then be submitted to the Bureau. Rather than update the hard copy version of UNECE Energy Series 42, this update will be posted on the UNFC website.

22. Harikrishnan Tulsidas advised that a companion guidebook "Application of United Nations Framework Classification – 2009 for uranium and thorium projects" would be

submitted for TAG review when complete. Hari now advises that this is scheduled for completion in February 2015.

Chairman Comments

23. **SKYPE Access:** Two TAG members used SYPE to participate in the December 11 conference call and reported good reception. It was noted that SKYPE provides the facility to share online views of documents to facilitate discussions.

24. **TAG Process Update:** TAG project leads were requested to submit a short summary of significant items in their area of responsibility 10 days in advance of the conference call with focus on key issues, action items, updated timetables and specific draft recommendations. All project leads submitted reports prior to the December 11 conference call; however, due to work conflicts, several reports were submitted just prior to the meeting. This process will be continued hopefully with earlier submissions.

25. **Work Distribution:** It is becoming apparent that that the work on TAG project is being concentrated in a subset group. The TAG chair will be more proactive in soliciting volunteers to level the workload. Where members are routinely not participating in discussions or assuming work assignments, the Chair will solicit advice from the Bureau regarding providing alternative candidates. We understand that work conflicts prevent full participation in the conference calls but we encourage all members to actively participate by email.

26. **Project Timing:** Members will note that in several projects feedback/comments has been requested within 2 weeks. Members should make every effort to comply with this schedule. Where no feedback on specific issues is provided, the team lead will assume concurrence with the recommended action. TAG is committed to providing timely reviews of documents provided by the EGRC task force teams.

Next meeting

27. Charlotte will canvas the TAG members regarding their availability for a conference call on either 21 or 22 January 2015. The time for this meeting will be adjusted to 12 pm BST to allow Australia participation. Given the anticipated project schedules, TAG conference calls will be convened on a monthly basis leading up to the April 2015 EGRC meeting.