



IAEA activities related to Nuclear Graphite Knowledge Base

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**Technical Meeting on the Status of the International Knowledge
Base on Nuclear Graphite
26–27 March 2015**

IAEA International Graphite Knowledge Base



Databases



<http://nucleus.iaea.org/sites/graphiteknowledgebase/Pages/home.aspx>

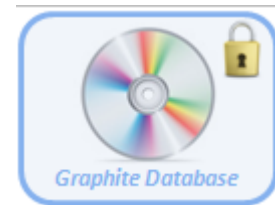


Current Status of Implementation



Recent changes and improvements

- *General maintenance of the site*
- *Corrections and improvements made*
 - *Knowledge-base name updated to be consistent throughout the IAEA web site, Nucleus and on the site (many different pages...)*
 - *Updated banner with consistent name*
 - *Member state logo updated*
 - *New user request area redesigned and implemented*
- *Graphite Database*
 - *Latest release to IAEA available on web site*
 - *New hyperlinks added and tested successfully to overcome issues to open reference and QA status files (error with some older MS Office configurations)*
 - *Excel file needs to be cleaned up (duplicate entries) before final deployment*



Recent changes and improvements

- *INGSM record*
 - *New update provided by Tony uploaded - current*
 - *SharePoint file name requirements required changes*
 - *New hyperlink text introduced as alternative to linked file (can be copied to browser if needed)*
- *Relative smooth transition to new Nucleus / SharePoint look and feel*
- *Some issues to be resolved*
 - *Banner disappeared / or need refresh (unclear why)*
 - *New user request not in transitioned version (to be resolved)*
- *Some indication that the error in opening files are resolved*
 - *One test with Tony's PC configuration at home worked (although very slow) – need more testing*



Discussion on a future vision of a Knowledge Base platform



The future of the knowledgebase

Development of a Nuclear Graphite Knowledge Base

- *How to transform the current Knowledge base "web site" and database into a real Knowledge Base*
- *Incorporation into future HTR Knowledge base ?*
- *Taxonomy: How to and available tools to facilitate implementation.*
- *Structure of documents already a good basis*
- *Step-wise approach to show benefits*
- *Need members commitment to contribute*



Current hosting at IAEA: Advantages and challenges



As an IAEA hosted activity ...

- *To get money*
 - *Process to receive donations / extra-budgetary funds complicated*
 - *Same rules apply as for any other member state contribution or extra-budgetary contribution.. but*
 - *Our sponsors not notified – only member states (on aspects such as small left over funds not being transferred to a new financial year)*
- *To spend money*
 - *New internal IAEA process to assign short term contractors much more complicated (externally and internally)...*
 - *now a fishing expedition hoping to land the big one... (to promote fair competition)*
 - *Now use the normal job application system*
 - *IAEA rules apply as for any other TM or IAEA activity*
 - *As in the past regular IAEA budget can be a very effective supplement but only on an ad-hoc basis (lead to short term urgent requests..)*



As an IAEA hosted activity ...

- *IT hosting in Nucleus*
 - *Free hosting, maintenance and archiving*
 - *Updated underlying platform and software (SharePoint)*
 - *Well protected data – Nucleus as secure as with user password*
 - *Complete log of activities / changes made*
 - *Access to experts – but without budget the support is obviously limited*
 - *SharePoint allow the users (You) to have full control over the content, look and feel with access granted to appropriate areas*
- *IAEA name does add value*
- *Vienna is a nice place to visit....*
- *Assistance to developing member states participants when possible (ad hoc basis)*





Spike Project

INGSM demonstration of KB



INGSM Spike KB demonstration

- Proposal for taking a subset of the INGSIM data
 - have a small working group figure out the effort, time and cost needed to convert the whole KB

The Spike project:

- *Get authors to supply keywords for past INGSIM presentations*
- *Take a representative number of INGSIM presentations (with keywords)*
- *Use the KB restricted resource structure, the keywords and other taxonomies and create a first INGSIM specific taxonomy*
- *See what the Knowledge Base experts and tools can offer as a first product*
- *Evaluate the effort, time and cost... and extrapolate to INGSIM, KnowledgeBase and later perhaps the “Database”*
- *Could be facilitated in a small IAEA Consultancy meeting*



A blue flag with the IAEA logo (a stylized atom with three orbits and a central nucleus, surrounded by a laurel wreath) is flying in front of a modern building with a grid of windows. The text "Thank you!" is overlaid in large blue letters.

Thank you!

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Actions from previous meetings

New actions from 2013 in UPPERCASE

- *Action 2: Provision of material on HFIR – Dr Burchell had provided the Chairman with material to upload: for UK test reactors (Mr. Wickham) the action was 'on hold' the quest for material on BGRR had so far been unsuccessful as few staff remained;*
- *Action 5: Mr Burchell to provide reports on carbon-composite data for 'Sheet 2' of the Database file: no reports had been received to date; (document references was sent on 26 March 2015)*
- *Action 7: Chairman to encourage the active contribution to the KB from additional member states (unsuccessful);*
- *Action 8: Mr Tyobeka to report to the meeting on the initiative of the OECD to collaborate with IAEA on databases in general and on this KB in particular: no report had been received: Action transferred to Mr Reitsma*
- ***ACTION 2: Mr Reitsma to follow up on the meeting of the OECD and IAEA on collaboration on databases***



Actions from previous meetings

New actions arising from this meeting are indicated in bold

- *Action 9: Chairman to solicit contributions to the KB from members on a quarterly basis (deferred because of IT issues ongoing);*
- *Action 11: Provide links in appropriate KB folders to ASME, ASTM and GEN IV work, Mr Burchell (not completed)*
- ***ACTION 3: Mr Wickham: to follow up on all uncompleted actions from the previous meeting.***
- ***ACTION 4: Mr Salstrom to investigate the possibility of TTU joining the project as a sponsor.***
- ***ACTION 5: ALL to inform the chairman by e-mail of their wishes for the next stage of work in the KB***



Actions from previous meetings

New actions arising from this meeting are indicated in bold

- ***ACTION 6:** Mr Wickham to seek clarification on the procedures for editing (i) country buttons; (ii) creating and populating an Unrestricted page with hyperlinks in accordance with the discussion in the meeting, and (iii) addressing the inadequate Home Page. These requests would in the first instance be passed to Mr Gladyshev. Mr Wickham will then seek to involve other colleagues directly in the fulfilment of these requirements as discussed in the preceding paragraphs*
- ***ACTION 7:** Mr Reitsma to request his intern to review the document status in each KB folder, upgrade any 'drafts' and remove inconsistencies*
- ***ACTION 8:** Mr Haag to complete the latest update of the numerical database and to forward it via Mr Wickham for uploading.*



Actions from previous meetings

New actions arising from this meeting are indicated in bold

- ***ACTION 9: Mr Wickham to consider introduction of improved search facilities for the INGSM archive and the resource necessary to implement it***
- ***ACTION 10: Mr Reitsma to prepare draft letters for Mr Byshkov to send to potential participants in the identified Member States***



Actions from previous meetings

Mr Wickham drew attention to a developing anomaly in that potential users of the KB were occasionally coming from Member States which were not formal participants, but often had a legitimate reason for seeking access. The restriction to so called participating Member States was a legacy of the original Working Arrangement drawn up when only the numerical database containing 'restricted' information existed. Given that much of this was now declassified – only UK PGA data from Magnox reactors remained classified and this only because the original documents bore 'confidential' markings which had assumed a greater significance latterly than when they were first issued. This issue aside, and given the Agency's role in providing information to all of its Member States, it may be appropriate to consider these issues again at the next meeting.

ACTION 11: Mr Reitsma / Mr Wickham to ensure that this issue is placed upon the Agenda for the 2014 meeting.



Actions from previous meetings

- **ACTION 12: Mr Wickham (and others if they so desire)** to provide copies of previous 'graphite' training materials to Mr Reitsma for review – Done
- **ACTION 13: Mr Reitsma** to investigate the feasibility of hosting the INGSM within the Agency during September 2015 (now Sept 2016)
- **ACTION 14: Mr Reitsma / Ms Shirmbrandt** to prepare letters to all present and former sponsors , reflecting the position that no sponsorship payments have been received in 2013 and are now requested also for 2014 from those companies willing to make them



Actions from Dec 2014 meeting

- ACTION 1: INGSM record received from chairman to upload to KB site – Done
- NOTE 1: Files in pdf format to be used (since this is backwards compatible and cannot be changed)
- Note 2: The “master” Excel file / Database should be protected (should only be changed within a well controlled environment)
- Note 3: Use other Taxonomies (like Fast reactor) as basis; Others include NE Glossary and Nuclear Accidents
- ACTION 2: Duplicate QA ratings in Excel data to be removed (left over from earlier tests)
- ACTION 3: Oxidation report to be transformed from INL to IAEA TECDOC format (Will Windes)
- Info: small exercise in taxonomy development in the graphite database / Excel file

