Agenda Item 3.5.2
Update on the NSS-OUI IT Platform

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NSOC
SPESS: Strategies, policies and processes knowledge management system

- **SPESS A**: Strategies and Processes for the Establishment of IAEA Safety Standards

  - **SPESS E**: Knowledge and Content Management System
    - Feedback Mechanism
    - NSS-OUI IT Platform for the Review/Revision and Publication Process

  - **SPESS D**: Experience Sharing on Approaches to Combining Safety Guides

  - **SPESS F**: Document Preparation Profile (DPP) Template

- **SPESS B**: Step by Step Preparation and Review Process

  - **SPESS C**: Guidelines for Drafting IAEA Safety Standards and Nuclear Security Series Publications

  - Long-Term Structure and Reference set of Safety Standards for the Long-Term
Background: After nearly 60 years of history we are not preparing new standards, but essentially revising the existing ones. Therefore the objective of the Knowledge and Content Management System are:

• To ensure that the review and revision of published standards is based on a systematic feedback collection and analysis process (new knowledge).

• To ensure that any revision of the safety standards or part of the safety standards is justified by the above mentioned feedback process (new knowledge), therefore also ensuring stability of the parts of the standards that remain valid (published knowledge).

• To maintain the technical consistency among the standards through a management of the standards as a complete collection rather than by individual management of individual standards (Content Management System).
• To enhance *semantic consistency* through systematic use of harmonized terminology

• To ensure the *completeness* of the collection through a systematic top-down development approach complemented by topical *gap analyses*

• To support harmonized use and application of the safety standards by enhancing their *user-friendliness* and by providing tools for the users to *easily navigate* within the whole collection.

**NEW PLATFORM: NSS-OUI:**
https://nucleus-apps.iaea.org/nss-oui
BASIC ELEMENTS (1/2)

- Access and browse the content of the Safety and security related Series of publications

- Browse publications

- Browse Overarching Requirements and then navigate top-down or across the Series using references and additional explicit relationship notes

- Browse Overall Recommendations for Nuclear Security and SSR-6, and then navigate top-down or across the Series using references and additional explicit relationship notes

- Possibility to link to relevant TECDOCs, Safety Reports and EPR Series, or even to import their introduction with tagging to make them also searchable

- Possibility to link to relevant e-learning tools
BASIC ELEMENTS (2/2)

- Available on Desktop, Laptops, Tablets and Smartphones with responsive design

- Supported by all popular browsers

- Advanced search capability with four ontologies (topical areas, type of facilities and activities, target audience, lifetime)

- Relationship search capability (search all implicit relationship)

- Central feedback mechanism to collect and retrieve feedback (both by publication and by topical areas)

- Mechanism to easily update the explicit relationships

- Mechanism to import new or revised standards while keeping access to previous versions

- Access to translated versions where available
STATUS May 2017 (1/2)

- All Safety Standards available and tagged
  - All available GSRs and SSRs imported and searcheable full text
  - All available GSGs and SSGs imported and searcheable full text
  - All previous standards, even if under revision, are available full text, except those there are at the end of their revision process (beyond CSS approval) for which we wait the new revision
  - Thus metadata search fully operational and full text search for a total of 122 Safety Standards and 23 Nuclear Security Series (*10600 pages of publications*)

- All Nuclear Security Series publications available full text except NSS No. 1 available on request, NSS No 9 and 11 being at the end of their revision process
  - Topical ontology finalized recently
  - Thus full text search and metadata search fully operational
STATUS May 2017 (2/2)

• Advanced Topical search, with also a “search the search criteria” tool). Further refinement soon (expand all branches to search directly into the ontology)

• Central feedback mechanism fully operational to publications available full text

• Mechanism to start revision processes in place
Content and relationship management through metadata and through explicit relationship information

Note:

Top Down development results in Bottom-up references whereby the guides refer to requirements or recommendations but not the reverse → Need to re-establish top-down reading

Also in horizontal relationship, a req or rec can only refer to existing other req or rec. → Need to update cross-references

Topical relationship – Hierarchical Relationship – Semantic Relationship
The Central Role of METADATA

Feedback

Need to allocate to topical areas

Identify to what the feedback applies

Ability to identify in the standards what relates to a specific topical area and what feedback

Availability of electronic versions

Facilitate SEARCH and feedback collection

Consistent revision

Consistent updates

Feedback process

Revision process

Publication process
NEXT STEP

• New Relationship Search tool with possibility to select/de-select topical areas

• Import of the Glossaries and then semi-automatic tagging to import as metadata the definitions and associated information notes for defined terms used in the text of the publications (in kindle type pop-up windows)

• Full SharePoint process flow to manage the review and approval process steps for the revisions up to the final approval and publication

• Continue to insert relationships to relevant Safety Report, TECDOCS and other relevant publications (done for SR, TECDOCs less than 5 years old)

• Insert in a systematic manner link to e-learning tools for the requirements/recommendations and where appropriate for guides

• Some formatting issues to be addressed with the Publications Section
Thank you!