

The Nuclear Energy Series Documents

From concept into practice

Technical Working Group Meeting on Research Reactors
February 2008, Vienna



IAEA

International Atomic Energy Agency



Background

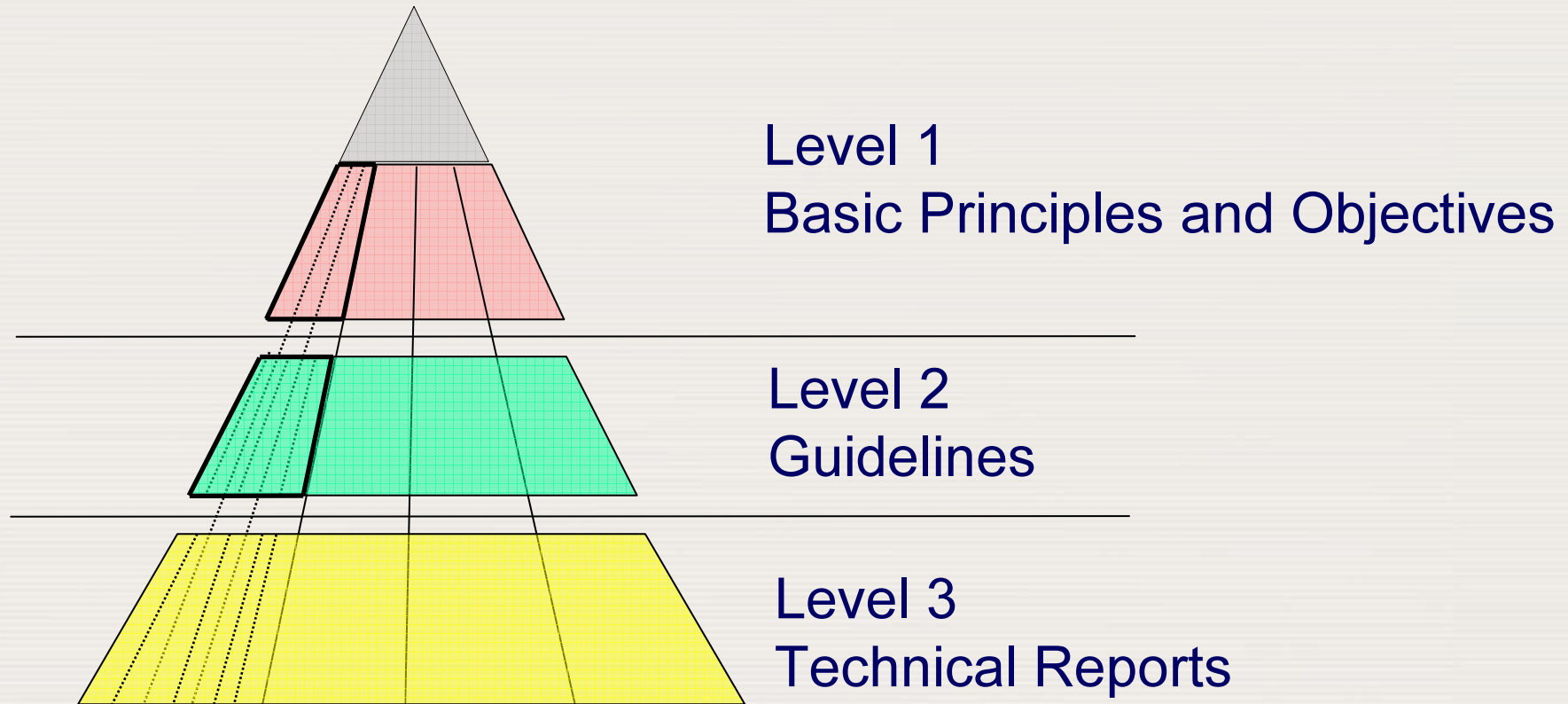
- ❑ **NE developed various types of documents**
 - TECDOC-xxx, TRS-xxx and others
 - guidance documents, proceedings of workshop, CRP results...

- ❑ **However, there was no structure that may provide;**
 - Consistent, systematic & effective document production by filling important gaps in a structured document system
 - Easiness in finding documents (xxx-numbered docs)
 - Reference material usable as solid basis for NE's technical advice to Member States

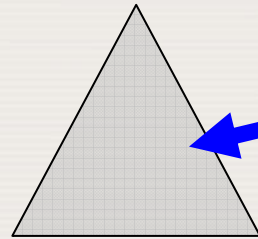
Nuclear Energy Series

- Incorporate relevant existing documents, but add structure and increase visibility and credibility by;
 - ✓ providing hierarchy structure and positioning each NE's document in the structure;
 - ✓ improving credibility & quality, through improved process including external review;
 - ✓ ensuring continuity of documents through established preparation and review process and renewal/revision period;
 - ✓ providing standard approach to document preparation;
 - ✓ providing an underlying basis for supporting activities for MSs.

Nuclear Energy Series



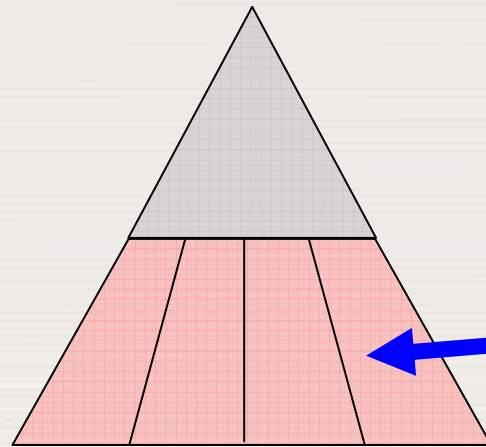
Elements of the Nuclear Energy Series Documents



Basic Principles

Manifest and describe the rationale, and vision for the peaceful use of nuclear energy

Elements of the Nuclear Energy Series Documents



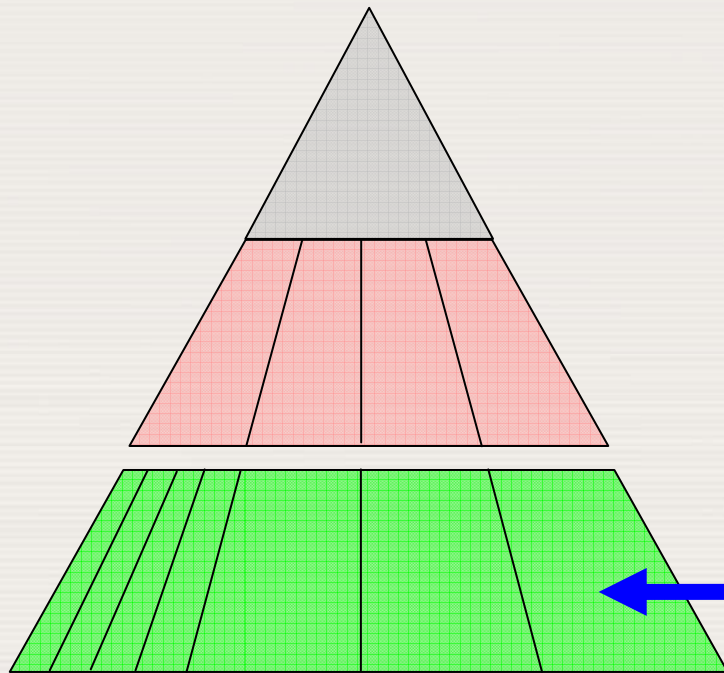
Objectives

The Objectives include 4 Areas

- **General**
- **Nuclear Power**
- **Nuclear Fuel cycle**
- **Radioactive waste and decommissioning**

Describe what needs to be considered and to be achieved in various Areas at different stages of implementation

Elements of the Nuclear Energy Series Documents

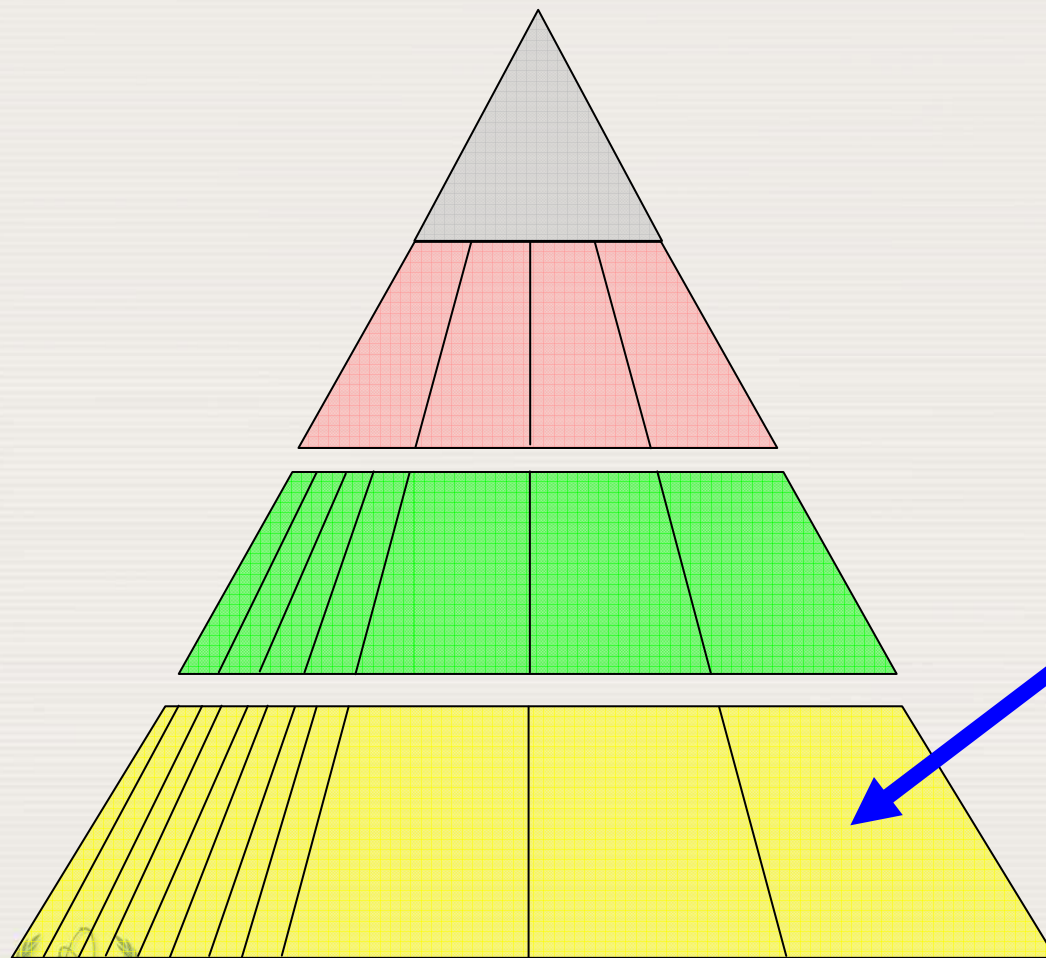


The Guides include 18 Topical domains

Nuclear Energy Guides

Describe how to achieve the objectives relating to various topics.

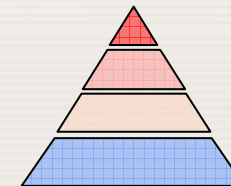
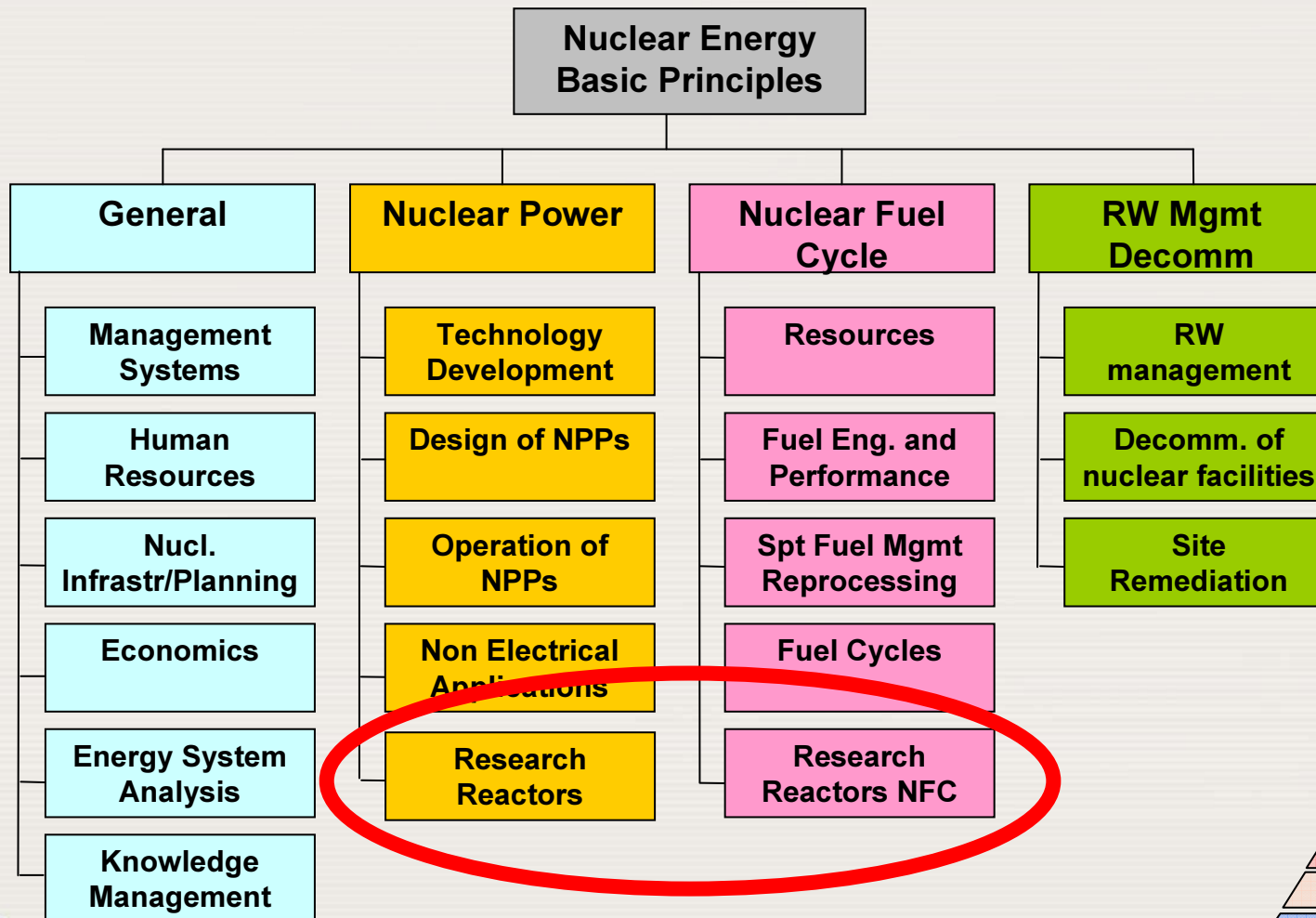
Elements of the Nuclear Energy Series Documents



Technical Reports

Provide technical background in the various Areas and Topics

The structure



NE Document Coordination Team (DCT)

- DCT coordinates the process
- The chair is the DDG NE
- Director of NENP and NEFW are members
- Each section is represented in the DCT
- Terms of References
- Reference materials

NE DCT - role

- Prepare a proposal for a NE documentation structure and maintain
- Established a document preparation and review process
- Consider of a plan for document development
- Organize/implement peer review of documents
- Interface with other IAEA document preparation organizations
- Interface with external bodies



Interface with outside of NE

- Extensive internal communication in planning (Publishing Section, PCC)
- NS and NA representatives

- Member States and experts/advisors

SAGNE

- SAGNE appreciated the efforts and reported the DG on the necessity of the new series:
 - ...high priority to the implementation of the proposed hierarchy of documentation produced by the Nuclear Energy Department in order to give clarity and context to the vast amount of information available and fill in gaps to maximize the benefits to interested parties especially in developing countries...

TWGs, TMs, CSs were informed and generally speaking welcomed

- Others
- DDG NE informed the DG on the new series
- Information on the NE website

SAGNE's role

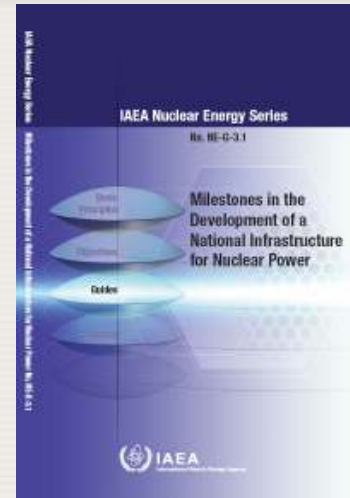
- Contributes to the development of Basic Principles and Objectives
- Considers the list of proposed documents, comments and if appropriate to review,
- Requests to report on the development of documents
- What is SAGNE proposal on its possible role?

How do we see the role of TWGs?

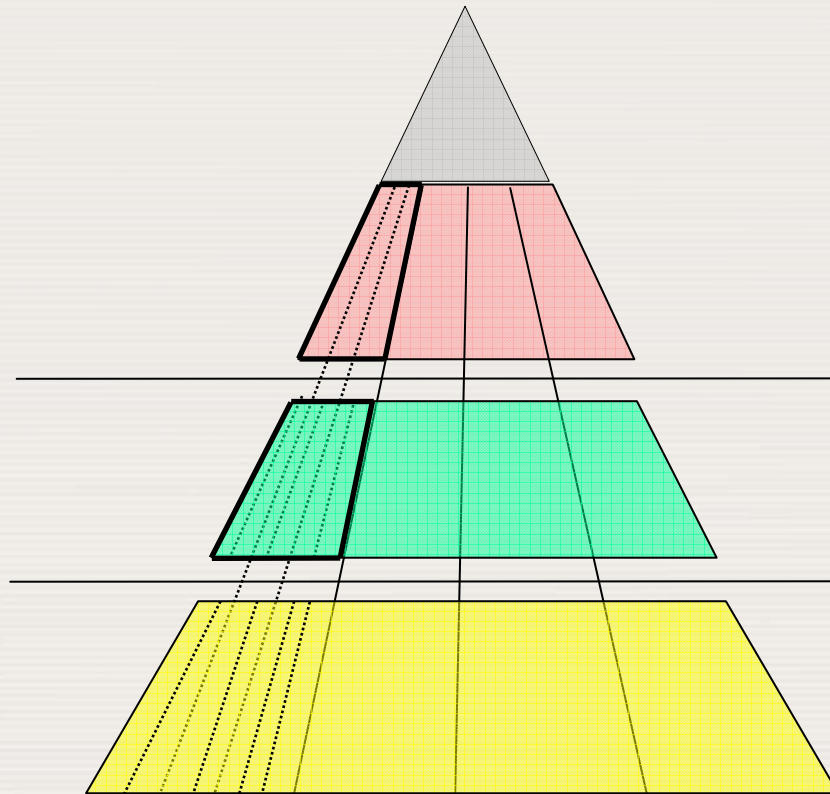
- Consider the structure and status of document development in specific area,
- Offer to update, close a gap, develop new documents
- Review if appropriate

Statistics

- Meetings
 - 25 meetings
 - 23 'regular' + 2 special
- DPPs
 - 83 DPPs reviewed
 - 7 DPPS returned
- 2 document published
 - Milestones in the Development of National Nuclear Infrastructure
 - Establishing a Code of Ethics...
- 7 reports approved by Publication Committee
- 3 DPPs submitted for approval



Nuclear Energy Series - Status



Level 1
Basic Principles -
submitted to SAGNE
and Objectives NP-O pilot

Level 2
Guidelines – 4 in preparation

Level 3
Technical Reports – 70 in prep.

IT support

Department of Nuclear Energy - INTRANET - Microsoft Internet Explorer provided by I.A.E.A.

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NE Intranet

NE INTRANET

Intranet | DTS | MAP | Contact

Welcome to NE Intranet!

NEDCT Document Tracking System : [NEDCT-DTS](#) (Restricted)

NES Documents Clickable Map : [NES Documents](#)

NEDCT Livelink Space : [NEDCT Livelink](#)

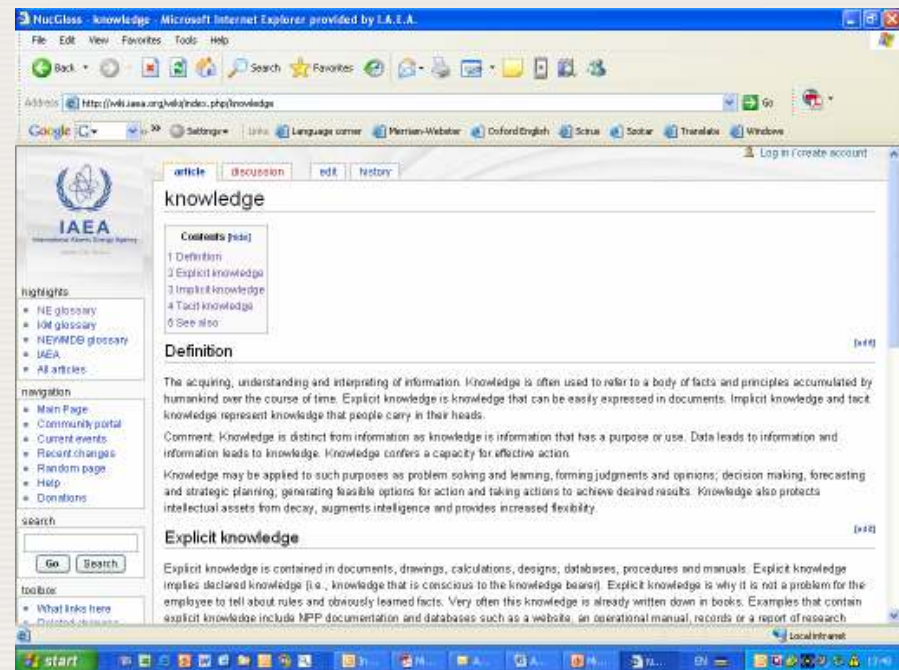
NE Glossary : [NE Glossary](#) (under construction)

IAEA

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NE Series Glossary

- The NE Glossary is under preparation
 - Complementary to safety Glossary
 - Collection of the existing NE glossaries
 - Integration
 - Harmonization of the terms
 - Publishing (Wikipedia technology)



Clickable Map

- 1653 old publications uploaded
- INTRANET (now)
- INTERNET (next week)

The screenshot shows a Microsoft Internet Explorer browser window displaying the IAEA website. The address bar shows the URL: <http://filenet.iaea.org/OurWork/ST/NE/NESeries/ClickableMap/>. The page content includes the IAEA logo and navigation menu. Below the navigation menu, there is a breadcrumb trail: Resources for : Home > Our Work > Technology > NE > NE Series. The main heading is "NES Documents Clickable Map". A "Show Search Tool" button is located below the heading. The central feature is a pyramid diagram with three rows and four columns. The rows are labeled "Basic Principles", "Objectives", "Guides", and "Reports". The columns are labeled "General", "Nuclear Power", "Nuclear Fuel Cycle", and "Radioactive Waste Management". The pyramid is divided into 12 colored segments, each representing a document category. The colors are: Basic Principles (grey), Objectives (light blue, yellow, pink, green), Guides (light blue, yellow, pink, green), and Reports (light blue, yellow, pink, green). The bottom of the browser window shows the Windows taskbar with the start button and various application icons.

Clickable Map - Documents

Nuclear Energy - Microsoft Internet Explorer provided by I.A.E.A.

File Edit View Favorites Tools Help

Address: <http://filenet.iaea.org/OurWork/ST/NE/NESeries/ClickableMap/>

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Guides

General Nuclear Power Nuclear Fuel Cycle Radioactive Waste Management

Reports

General Nuclear Power Nuclear Fuel Cycle Radioactive Waste Management

Management System	Human Resources	Nuclear Infrastructure and Planning	Economics	Energy System Analysis	Knowledge Management	Technology Development	Design of Nuclear Power Plants	Operation of Nuclear Power Plants	Non Electrical Applications	Research Reactors	Resources	Fuel Engineering	Spent Fuel Management and Reprocessing	Advanced Fuel Cycles	Research Reactors: NFC and Materials	Radioactive Waste Management	Decommissioning of Nuclear Facilities	Site Remediation
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Advanced Fuel Cycles Reports ... 14 document(s)

Nuclear Energy Series Document(s)

- (1) Fissile Material Management Strategies for Sustainable Nuclear Energy Proceedings of a Technical Meeting held in Vienna, 12-15 September 2005 - (-)
- (2) Country Nuclear Fuel Cycle Profiles - Second Edition - (IAEA-TRS-425)

Nuclear Energy Supporting Document(s)

- (3) Thorium Based Fuel Options for the Generation of Electricity: Developments in the 1990s - (IAEA-TECDOC-1155)
- (4) Health and Environmental Aspects of Nuclear Fuel Cycle Facilities - (IAEA-TECDOC-918)
- (5) Nuclear Fuel Cycle and Reactor Strategies: Adjusting to New Realities Contributed Papers - (IAEA-TECDOC-990)
- (6) Fuel Cycle Options for Light Water Reactors and Heavy Water Reactors - (IAEA-TECDOC-1122)
- (7) Seismic Design Considerations of Nuclear Fuel Cycle Facilities - (IAEA-TECDOC-1250)
- (8) Country Nuclear Fuel Cycle Profiles - (IAEA-TRS-404)

Local intranet

start

EN 14:29



Clickable Map – Search

No	Document Title	Document Level	Document Area	Document Topic	PDF
1	Planning and Management for the Decommissioning of Research Reactors and Other Small Nuclear Facilities - (IAEA-TRS-351)	Reports	Radioactive Waste Management	Decommissioning of Nuclear Facilities	
2	Spent Fuel Management: Current Status and Prospects 1997 - (IAEA-TECDOC-1006)	Reports	Nuclear Fuel Cycle	Spent Fuel Management and Reprocessing	
3	Implementation of Burnup Credit in Spent Fuel Management Systems - (IAEA-TECDOC-1013)	Reports	Nuclear Fuel Cycle	Spent Fuel Management and Reprocessing	

 The browser's status bar shows 'Done' and 'Local intranet'. The Windows taskbar at the bottom includes the 'start' button, several application icons, and the system tray showing 'EN' and '15:04'.
 

Summary

1. NE's structured document system enables consistent documents production in a more effective manner, increase credibility & visibility of NE's documents, and support NE's services
2. The DCT coordinates the production
3. Transparent production process - NS and NA involved
4. The Nuclear Energy Series is a reality

INTERNET

Nuclear Energy - Microsoft Internet Explorer provided by I.A.E.A.

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IAEA Safeguards
Nuclear Applications
Nuclear Energy
Nuclear Safety
Technical Cooperation

NE Series
Clickable Map
Description of the System

R&D Focus
Nuclear Energy Knowledge Portal
Nuclear Reactors Knowledge Base
IAEA Web Resources
SAGNE (Members login)

Divisions & Sections
INIS and Knowledge Management
Library
Economic Studies
Nuclear Power
Engineering
Technology Development
Fuel Cycle & Waste
Fuel Cycle
Waste Technology

Department of
NUCLEAR ENERGY
Fostering the Efficient and Safe Use of Nuclear Power

Organization / Navigation
To navigate the site and to see the Department's organization chart please [click here](#).

Working Areas
You can also navigate the Department's web pages through a topics list. You can find the working areas of the Department and jump to pages related to topics that you would like to view. To navigate through topics please [click here](#).

Databases and Information Resources
The Department of Nuclear Energy maintains several databases and

Audio-visual tour

start | Local intranet | 07:53



<http://www.iaea.org/OurWork/ST/NE>