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Swedish Radiation Safety Authority

Guidelines for Transparency: The Need for a Broad Reporting Scheme

Lars van Dassen

Head,

Secretariat for International Co-operation and Development

Swedish Radiation Safety Authority



A Change of Mind: HEU and Research Reactors - Historically and Today (1)

1950s – 1980s:

- Surge for nuclear science
- Support to alliance partners
- Control of nuclear ambitions



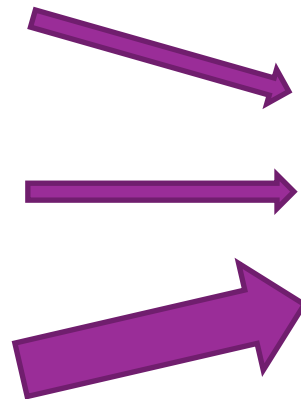
- Research reactors and HEU in a large number of countries.
- Under bilateral control schemes, later under safeguards (NNWS)



A Change of Mind: HEU and Research Reactors - Historically and Today (2)

Early 1990s – today:

- Nuclear research no longer a pioneering discipline as earlier but wide use
- Research reactors not necessary for alliance-building
- HEU seen as a threat – related non-state actors



- HEU elimination,
- HEU minimization,
- Conversion of research reactors
- HEU Repatriation



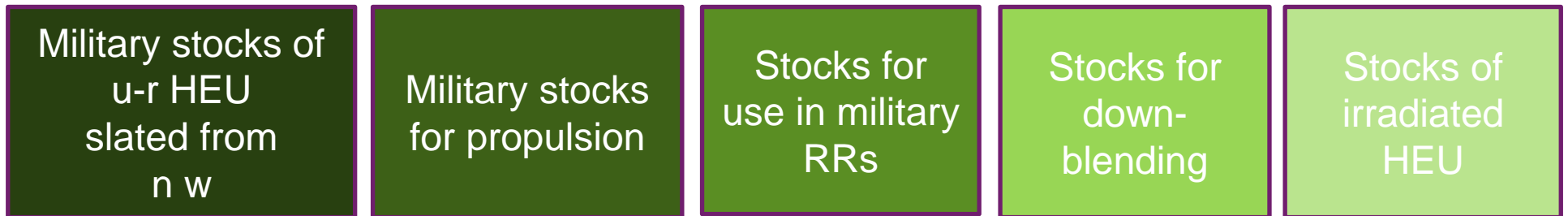
Three problems may slow down conversion and HEU minimization:

- How efficient is a converted research reactor?
(technical, economical answer)
- What is the net growth of security when there are transportation issues to consider, and fewer facilities with HEU versus others with more HEU?
(security risks can be estimated from case to case)
- How does this touch upon the inalienable rights of states to pursue peaceful uses of nuclear energy?
(differing political answers depending)



HEU Guidelines May Be Part of the Cure (1)

"National totals"



Report: "Amounts", "Not applicable", "Reporting subject to consideration"





HEU Guidelines May be Part of the Cure (2)

➤ ***Pu Guidelines***

- Statements on civilian uses and amounts
- Few states: Main users and producers of Pu
- Management, non-proliferation and security obligations
- **Effect on transparency: Many can view the civilian Pu holdings of the few.**

➤ ***Would-Be HEU Guidelines***

- Statements on civilian and military holdings
- All states
- Related to primarily security
- Proportionality in obligations for all
- **Expected effect on transparency: Broad and growing participation of states and reportings in various categories**



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HEU Guidelines:

- Have a separate space in the Nuclear Security Summit documents and action is thus expected
- But need to be stipulated and be given life
- If broadly defined and open to gradual submissions, they may create a more equal burden-sharing as concerns transparency
- And thus reduce perceptions that civilian activities and states with only civilian activities are the target and that military stocks and uses go free.
- This may become conducive for security efforts in the shape of conversion, shut-down, repatriation etc.



**Thank you for your willingness
to look into this matter**



Lars van Dassen
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