The most important Lesson Learned and the largest social problem

The University of Tokyo Workshop

What Fukushima nuclear disaster brought about in Asia? - Emerging risks in social, political, and economic domains -February 13, 2013 Muneo Morokuzu Project Professor Sustainable Energy/Environment & Public Policy II Graduate School of Public Policy The University of Tokyo

The most important Lesson Learned

Actions after the Chernobyl accident in 1986

JAPAN	Looked on with indifference because of the difference of the plant system.
ΙΑΕΑ	New International safety standard was made for the beyond expectation event, the "Defence-in- Depth" in 1996.

The most important Lesson Learned is to recognize the necessity of the "Defence-in-Depth" for the beyond expectation event.

We must hasten the robustness of the "Defence-in-Depth" regardless of expenses cost , not only the prevention of the recurrence.

Defence in depth (1)

Defence in depth (INSAG-10) hierarchical deployment of different levels of equipment and procedures in order to maintain the effectiveness of physical barriers, placed between radioactive material and workers, the public or the environment, in normal operation, anticipated operational occurrences and, for some barriers, in accident at the plant

Defence in depth (2)



source:http://www.iaea.org/ns/nusafe/tutorial/design/defdep.htm



The largest social problem

Regulation system was renewed but there is a deal of substance to be improved

- 1. Confidece-building
 - 1.1 Transparency
 - 1.2 Competency of licenser & licensee
 - 1.3 Communication among with local government

2. Safety improvement
2.1 Safety culture
2.2 the prevention of
 the recurrence
2.3 Defence-in-Depth

3. Regulation improvement 3.1 Independency

- 3.2 Harmonization to
 - the intnl standard
- 3.3 Self-preservation

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