



# **Towards the Enhancement of Nuclear Safety**

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**Shunichi Tanaka**

**Chairman**

**Nuclear Regulation Authority(NRA)**





# Independence

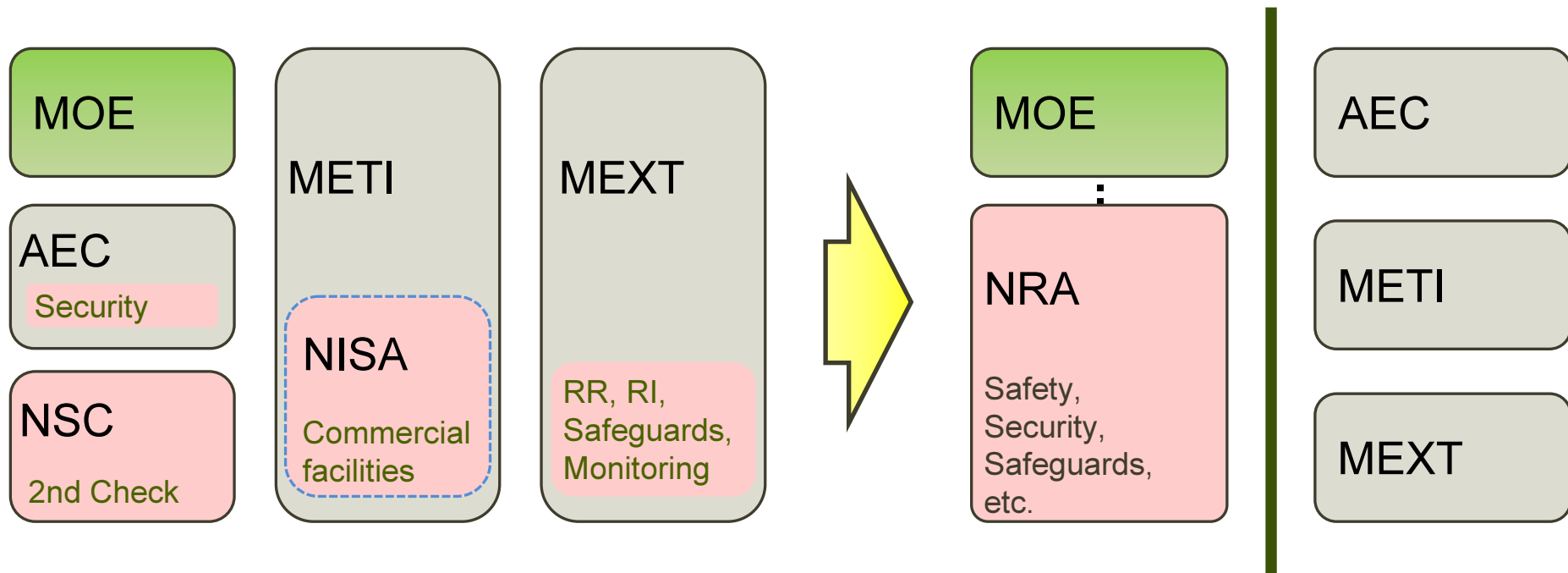
= Separate the functions for nuclear regulation and nuclear promotion.

Establish the Nuclear Regulation Authority (NRA) as an independent regulatory body.

# Integration

= Integrate nuclear regulation functions regarding safety, security, safeguards, radiation monitoring and radioisotopes regulation into the NRA.

# Independent and Integrated



AEC : Atomic Energy Commission  
METI : Ministry of Economy, Trade and Industry  
MEXT : Ministry of Education, Culture, Sports, Science and Technology  
MOE : Ministry of the Environment  
NISA : Nuclear and Industrial Safety Agency (abolished)  
NSC : Nuclear Safety Commission (abolished)

## Nuclear Regulation Authority



Commissioner,  
Kayoko Nakamura



Commissioner,  
Kunihiro Shimazaki



Chairman,  
Shunichi Tanaka



Commissioner,  
Toyoshi Fuketa



Commissioner,  
Kenzo Oshima

The Secretariat of the NRA  
(About 500 staffs)

JNES

JAEA

NIRS

# Transparency



- NRA meetings are open to the public (streamed live on the Internet).
- Meeting records with licensees are open to the public.
- Criteria for appointing outside experts
- Three press conferences are held each week.









# TEPCO Fukushima Daiichi Nuclear Power Station

- Specification as Disaster-experienced Nuclear Power Plant (Nov. 7)  
Ensuring safety of the decommissioning of reactors
- Continuing investigation of the accident cause  
Full cooperation for IAEA report
- Experts groups on radiation emergency  
administration  
To recommend measures to control  
radiation pollution and reduce  
long-term anxiety to human health.







## New Safety Standards for Nuclear Power Plants

To be established by  
July next year

- New regulation on severe accidents  
Legally-requested measures to prevent and to mitigate severe accidents.
- Develop new regulatory standards and apply to existing nuclear facilities (backfitting).
- 40-years operational limit for NPPs
- Legally define the limit to 40 years.
- NRA can permit a less-than-20-years extension.



## New Safety Standards for Nuclear Power Plants

To be established by July  
next year

- Safety measures against external event risks, including earthquakes, tsunamis, tornados, fires and terrorist attacks

→ Establishing new standards for Earthquake and Tsunami in particular



## Emergency preparedness and response in off-site areas

- Nuclear emergency preparedness guidelines were developed (Oct. 31). Expanded evacuation preparing zone; area about within 5km radius designated as PAZ and area about within 30km radius as UPZ.
- Study on EAL and underway by experts' group.

→ Reflecting the Nuclear emergency preparedness guidelines in the emergency preparedness plans in supporting with local governments (by March 2013)



## Field Surveys of Fracture Zones

- Started additional field surveys at three NPP sites (Oi, Tsuruga and Higashidori)
- NRA organized experts' team to conduct field surveys.





## International collaborations in the field of Nuclear Safety Regulation

- International collaborations with IAEA, OECD/NEA, and other countries.
- Sharing of cutting-edge knowledge in the field of nuclear safety regulation
- Nuclear security
- Nuclear safeguards
- Development of human resources





We just began to move forward steadily.