Nuclear Safety Research For Safe and Reliable Nuclear Power in Japan

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Spent fuels exist still in the spent fuel pools. It is estimated that most of fuel debris exist covered with water on the floors of containment vessels.

Major activities being promoted are:
- Management of contaminated water;
- Spent fuel removal from SFP;
- Survey of the inside of PCVs as a preparation for debris removal;
- Radioactive waste management;
- R&Ds of the fuel debris retrieval equipment and devices, container and systems necessary to safely retrieve the fuel debris.
### SAFETY AND RELIABILITY

**Safety:**
Enhance lines of defense (LOD) for safety through R&D

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<td>Anticipated Operating Occurrences</td>
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- **The first LOD**
- **The second LOD**
- **The third LOD**
- **Strengthening of the third LOD**
- **The strengthened fourth LOD**
- **The fifth LOD**

**Reliability:**
Improve the reliability, sustain the safety and extend the life as long as practicable through R&D for innovation, human resource development and knowledge management.
CONCLUSION

◆ R&D for safety, sustainability and innovation
◆ Safety culture
◆ Public confidence