法科学と「核鑑識」
Forensic Science and Nuclear Forensics

Flow diagram of Nuclear Forensics Analysis

My comment on this flow

Incident

Material/Sample

Measurement Data

Supporting Information

Conclusions Interpretation Attribution

Improve Prevention/Detection

Open Literature

Nuclear Materials Database

Historical Literature Archive

ITDB

IAEA Research Reactor Database

Other Databases

Comparison Samples
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Non-nuclear incidents

捜査機関
Investigative authority

鑑定依頼
Request

遺留品からの犯人に関するすべての情報
Extract information related to criminals from materials left behind at the site

法科学研究機関
Forensic Science Institute

鑑定書
Expert report

物理分析
Physical analysis
Visual inspection, Radiography, Photogrammetry, Particle morphology

化学分析
Chemical analysis
Element analysis, Impurity analysis, Mass-analysis

生物分析
Biological analysis
Blood type, DNA analysis
Forensic Science and Nuclear Forensics

Nuclear incidents?

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Investigative authority

Forensic Science Institute?

Very limited capability for nuclear forensics

Non-Nuclear? Nuclear?

Co-exist at site

Depend on the materials

How to handle the evidence?

How to separate nuclear and non-nuclear materials?

鑑定依頼？

Request？

鑑定書？

Exert report？
Preferable framework

Nuclear incidents

Investigative authority

Forensic Science and Nuclear Forensics

Cooperate and share the result

Function as a unity

Forensic Science Institute

Nuclear Science Institute

Materials left behind

Everything (Nuclear, Non-Nuclear) that exist at site

Request

Exert report

鑑定依頼

鑑定書

法科学研究機関

原子力の研究所

Function as a unity

Nuclear Forensic Institute