

Incident Reporting Systems for Research Reactors (IRSRR) and for Fuel Cycle Facilities (FINAS)

H. Abou Yehia
Research Reactor Safety Section
Division of Nuclear Installation Safety



IAEA

International Atomic Energy Agency

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IRSRR: Objective

- The IRSRR is a system to collect, analyse, maintain and disseminate information received from the IAEA participating Member States on unusual events in research reactors.
- **Objective:** To enhance the safety of research reactors through exchange of operating experience, and sharing of information and lessons learned from events as well as on the actions established to avoid re-occurrence of these events and improve the safety of the research reactors.

FINAS: Objective

- FINAS is a system to collect, analyse, maintain and disseminate information received from the IAEA participating Member States on safety significant events in fuel cycle facilities.
- **Objective:** To enhance the safety of fuel cycle facilities through exchange of operating experience, and sharing of information and lessons learned from events as well as on the actions established to avoid re-occurrence of these events and improve the safety of the fuel cycle facilities.

IRSRR Participation

- IRSRR is open to the participation of the IAEA Member States with a research reactor under construction or in commissioning stage, in normal operation, or in extended shutdown.
- A participating Member State has to appoint a National Coordinator. Local Coordinators could be appointed through the National Coordinator.
- The National Coordinator is responsible to write event reports, and submit them to the IRSRR database.
- IAEA is organizing regular meetings for National and Local Coordinators to exchange information on events including root causes, lessons learned from them and actions for preventing their re-occurrence.

FINAS Participation

- FINAS is open to the participation of the IAEA Member States operating fuel cycle facilities.
- A participating Member State has to appoint a National Coordinator. Generic users could be appointed through the National Coordinator.
- The National Coordinator is responsible to write event reports, and submit them to the FINAS database.
- IAEA, in conjunction with the OECD-NEA, organizes biennial meetings for National Coordinators and Generic users to exchange information on events including root causes, lessons learned from them and actions for preventing their re-occurrence.

Fifty-three Member States currently participating in IRSRR

| | | | | |
|------------|------------|-------------|-------------|--------------|
| Argentina | Czech Rep. | Italy | Nigeria | South Africa |
| Australia | Egypt | Jamaica | Norway | Syria |
| Austria | Finland | Japan | Pakistan | Thailand |
| Bangladesh | France | Jordan | Peru | Tunisia |
| Belgium | Germany | Kazakhstan | Philippines | Turkey |
| Brazil | Ghana | Korea | Poland | Ukraine |
| Bulgaria | Greece | Latvia | Portugal | UK |
| Canada | Hungary | Malaysia | Romania | USA |
| Chile | Indonesia | Mexico | Russia | Vietnam |
| China | Iran | Morocco | Serbia | |
| Congo | Iraq | Netherlands | Slovenia | |

FINAS: participation

- Currently, 20 Member States are part of FINAS;
- These Member States are operating about 80 % of the Fuel cycle facilities covered by the IAEA fuel cycle facility safety standards;
- Users:
 - Regulatory bodies and Technical Support Organizations;
 - Operating organizations;
 - IAEA.

IRSRR and FINAS – What should be reported?

- Unusual events important to safety or with serious safety implications;
- Unusual releases of radioactive material or exposure to radiations;
- Unusual events that may yield important safety lessons.

IRSRR and FINAS – Confidentiality and benefits to the participating Member States

- Systematic collection and evaluation of operating experience is essential to improve operational safety and to prevent incidents.
- A proper analysis of unusual events can identify root causes and provide valuable lessons to the operators, regulators, and designers.
- Essential part of the safety culture, since safety is learning driven and integrated into all work.
- Reports are available only to the IAEA Member States which are formally participating in the systems. Information is not open to public.

IRSRR web-based database – Restricted access

Incident Reports

[Return to Search](#)

Search Criteria: Reactor Power below 45000; ReactorType: POOL; Countries: CA, FR, DE, NL,;

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Sorted by: IRSRR Number | Records/P: | Page 1 of 1 | Total Records = 2

| Date of Incident | Title | Report Type | Date of Receipt | IRSRR Number | Country | Reactor Name | Reactor Type | Power (KW) | First Criticality | Licencee Name | INES |
|------------------|--|-------------|-----------------|--------------|---------|-------------------|--------------|------------|-------------------|----------------------------|------|
| 1994-01-04 | POWER EXCURSION AT THE MCMASTER NUCLEAR REACTOR (MNR) DURING FUEL LOADING | P | 2009-11-06 | 12 | Canada | MNR MCMASTER UNIV | POOL | 5000 | 1959-04-04 | NUCLEAR REACTOR LABORATORY | No |
| 1998-10-02 | TOTAL INHIBITION OF REACTOR PROTECTION SYSTEM DUE TO NON-COMPLIANCE WITH A SURVEILLANCE TEST PROCEDURE | P | 2009-11-06 | 3 | France | PHEBUS | POOL | 40000 | 1978-08-09 | | No |

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IRSRR web-based database – Restricted access


FINAS
Fuel Incident Notification
and Analysis System

Sign In

User Name:

Password:



Forgot Password? Please enter
your FINAS registered email
address to obtain a new password:



About FINAS

The Fuel Incident Notification and Analysis System (FINAS) is an international system jointly operated by the [International Atomic Energy Agency \(IAEA\)](#) and the [Nuclear Energy Agency of the Organisation for Economic Cooperation and Development \(OECD/NEA\)](#).

The fundamental objective of FINAS is to contribute improving the safety of fuel cycle facilities which are operated worldwide. This objective can be achieved by providing timely and detailed information on both technical and human factors related to events of safety significance which occur at these facilities.

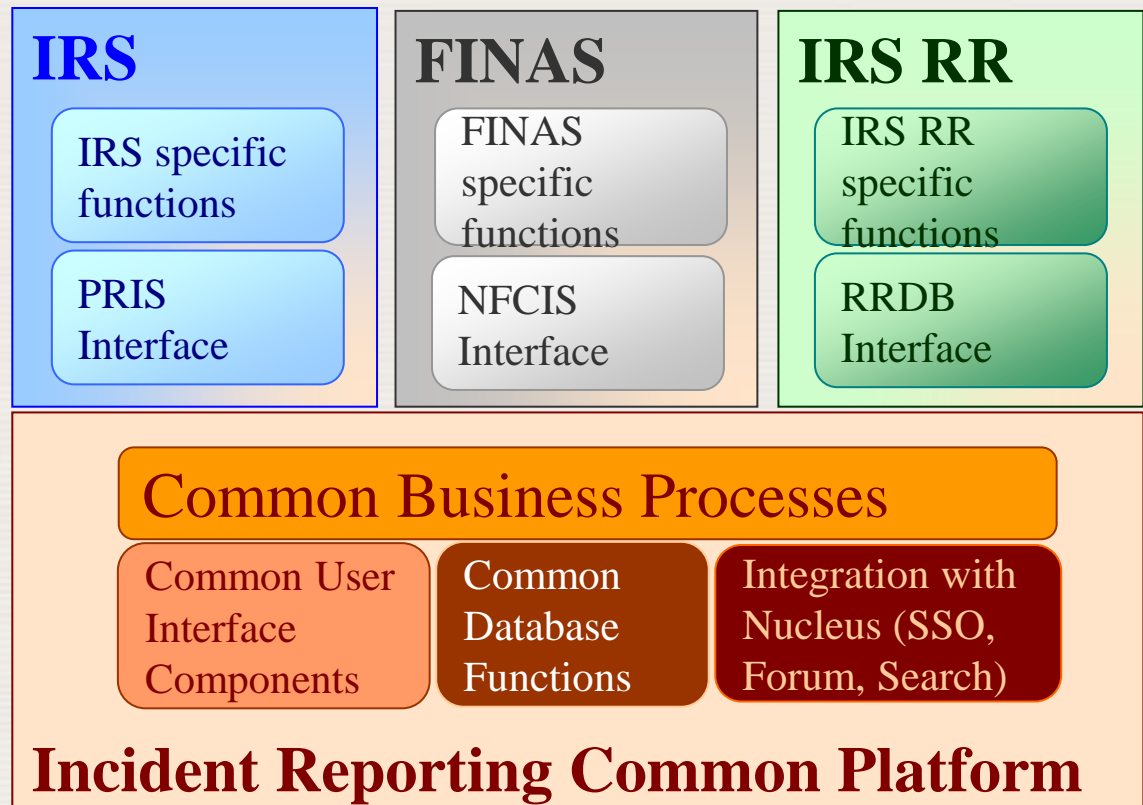


Relation with the other IAEA Incident Reporting Systems

IRS:
Incident Reporting System

FINAS :
Fuel Incident Notification and Analysis System

IRSRR :
Incident Reporting System for Research Reactors



Comparison with IRS/INES

- IRS is comparable with IRSRR and FINAS, but IRS is:
 - For NPP's;
 - In principle for National Coordinators (Regulators);
- INES is for public information on events related to safety;
- Technical information is limited in INES.

Concluding remarks

- Incidents reporting systems (IRSRR and FINAS) are powerful tools for exchange of operating experience for research reactors and fuel cycle facilities.
- IRSRR and FINAS are open for both regulatory bodies and operating organizations. The information submitted to the systems are restricted to the participating Member States and not open to public.
- Reporting to the systems is strongly encouraged to facilitate learning from the worldwide operating experiences.
- The IAEA is organizing regular meetings for the exchange of operating experience. Important topics such as event investigation techniques are also covered during these meetings.

Thank you for your attention!

