Tir radio
(radiographic testing)

An application protecting operators from irradiation

28/06/2018
History and state of play

• At the beginning of 2000’s: some incidents and significant events were declared on our sites.


• 2007: internal prescriptions guiding and monitoring the activity.

• RP department is responsible on our sites for the implementation of radiography activities

About 100 000 ejections - insertions / year on EDF nuclear sites and about 400 workers in 10 firms are directly concerned.
Demarcating the boundary of a controlled area for radiographic testing
The App : Tir Radio
Based on as built digital mockup

Accurate to a few centimetres
Understanding the building layout

- Accurate maps featuring all accesses (stairs, ladders, elevators, doors)
- Simple measuring tools
- Panoramic views
Finding all paths leading to the radioactive source
Simultaneous radiographic tests: detection of overlapping controlled areas
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Expected gains and feed-back

Main expected gains for the EDF fleet:

- Serenity and gain when planning activities in the reactor building
- 400 k€ due to non-cancellation of radiography activities if a path is detected in the boundary at the last moment
- At least, 1 significant event avoided per year
- **No overexposure of a worker**

First feed-back:

- Repeatability for the next outages
- Pre-visualization of boundary plans, virtual visits during preparation (reactor building closed)
- Acceptance of all actors of the process
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