SAFETY AND RADIATION PROTECTION AT NUCLEAR POWER PLANTS IN FRANCE IN 2013

1 WHAT IS AT STAKE ?

2 SAFETY PERFORMANCE IN 2013.

3 RADIATION PROTECTION PERFORMANCE IN 2013.

4 PROPOSALS FOR IMPROVEMENTS.

1 WHAT IS AT STAKE ?

The number of significant radiation protection-related events for EDF nuclear power plants observed since 1990 is fairly constant. These events are indicative of the need to be investigated and understood, in order to identify relevant strategies for continuously improving safety. These modifications are subject of detailed analysis by IRSN.

Changes and upgrades are made to France's nuclear reactors throughout their operation life, mainly with the aim of improving plant safety during operations. These modifications are subject of detailed analysis by IRSN.

AS LEVEL 1 OR 2 IN 2013

4 PROPOSALS FOR IMPROVEMENTS.

Significant events can refer to 'significant safety-related events' or 'significant radiation protection-related events'. Significant events can have significant consequences for the health of workers and the public. The overwhelming majority of events that occurred in 2013 were classified as Level 0 or Level 1 events. These events are not classified as significant radiation protection-related events: the number of significant radiation protection-related events was not significant in 2013 compared to 2012.

2 SAFETY PERFORMANCE IN 2013.

The number of significant radiation protection-related events continues to evolve in a downward trend at a rate of about one hundred anomalies (Level 1) per year. In France, one “accident with local consequences” occurred in 2011. In 2013, only one event occurred, regarding a “minor or moderate” event.

3 RADIATION PROTECTION PERFORMANCE IN 2013.

The report presents IRSN’s overall assessment for the year 2013 of safety and radiation protection performance of France’s nuclear power plants and their performance in implementing the corrective action plan in all nuclear power plants. The report also includes the results of analyses related to specific events and topics.

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