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Regulatory framework and inspections French Experience

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ASN Establishment

The Act on transparency and security in the nuclear field (n° 2006-686 of 13 June 2006) set up ASN as an independent administrative authority

- ASN is not within a ministry but is a State Authority
- ASN reports to the French Parliament
- ASN is managed by a board of 5 Commissioners created by the TSN act

On behalf of the State, ASN regulates nuclear safety and radiation protection in order to protect **workers, patients, the public and the environment** in France against the risks related to nuclear activities.


Crossed inspection RTN-ASN - 26 to 28 May 2015 - Saint Petersburg

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ASN Figures in 2014

- 475 staff:** industrial and medical engineers, physicians, pharmacists, radiographers, physicists, legal and administrative specialists, human sciences and communications experts
=> **11 regional offices**
- ~ 400 experts within ASN's TSO**
Institute for Radiation Protection and Nuclear Safety



Medical Facilities

- ~33 000 devices for dental examinations
- ~16 000 devices for radiology including ~ 1100 for interventional radiology
- ~ 1100 CT
- ~ 175 radiotherapy facilities
- ~ 217 nuclear medicine facilities

- Procedures for appointing and qualifying nuclear safety inspectors
- Process for accrediting senior inspector

273 inspectors (147 small scale facilities)

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Authorisation process

LICENSING PROCEDURE FOR:

- Radiotherapy
- Nuclear medicine

Pre-licensing inspection

REGISTRATION PROCEDURE FOR

X-ray generating equipment :

- Conventional radiology,
- Bone densitometry,
- Mammography,
- Dental radiology (Intra-oral, panoramic dental radiography, cone beam computed tomography)

Interventional radiology

Work in progress for licensing

Graded approach

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Authorisation process : CT

Justification :	Optimisation (medical exposure)	Optimisation (occupational exposure)
<ul style="list-style-type: none"> Diploma / qualification of doctors (holder of the license) CV, experience 	<ul style="list-style-type: none"> Diploma/Qualification of physicist, CV, experience Plan for medical radiation physics resources : staffing and skills Contract with a service provider External quality control of equipment (approved organisms) 	<ul style="list-style-type: none"> Qualification of RPO/RPE Technical rules for fitting out CT Radiation protection program : risk assessment, zoning, dosimetry, categorization of workers, dose assessment, report of external RP cheks (approved organisms), measuring instruments...


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Inspections in 2014

In 2014, ASN performed approximately 600 inspections in medical facilities / 340 in diagnostic radiology

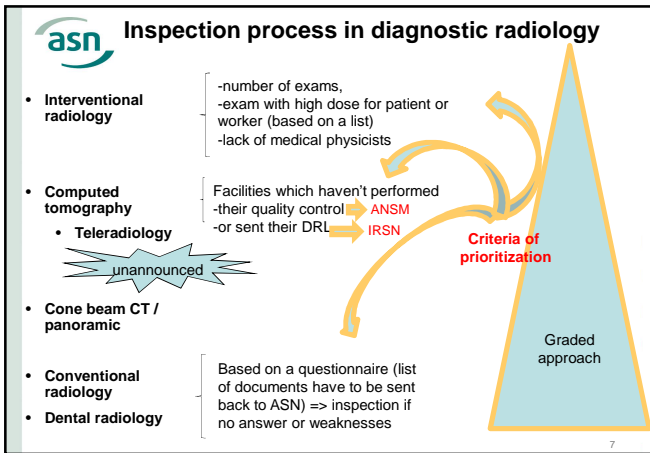
Breakdown, per activity category, of 1159 inspections carried out in the small-scale nuclear facilities (medical-592; industrial-536; others-31)



-Conventional and dental - CT 193

Interventional radiology 145

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asn Inspection in diagnostic radiology

Staff training	Justification (medical exposure)	Optimisation (medical/occupational exposure)
<ul style="list-style-type: none"> occupational exposure patient radiation protection use of equipment 	<ul style="list-style-type: none"> Pregnant woman Information of justification in the prescription (reason, purpose, specific circumstances...) Patient : information about risk, identification procedure, follow-up after interventional radiology... <p>Prioritization to the RP of patient rather than worker for CT</p>	<ul style="list-style-type: none"> Involvement of physicist, DRLs, information in the report (procedures, doses), assessment of clinical audit, notification procedure of incident Equipment : CQ report, maintenance, software of optimization for CT, written protocols (including pregnant woman), knowledge of optimization parameters... Worker : RPO/RPE, zoning, dosimetry, technical control, protective equipment, medical surveillance...

Guidances for inspectors :

- ✓ CT,
- ✓ Interventional radiology,
- ✓ Dental (CBCT)

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