

# Legislative requirements for handling sources of ionizing radiation

## Laws and Ordinances

- Act No. 18/1997 Coll., on the peaceful use of nuclear energy and ionizing radiation, as last amended by Act No. 13/2002 Coll.,
- Decree No. 307/2002 Coll., on radiation protection, as amended by Decree No. 499/2005 Coll.,
- Decree No. 147/1997 Coll., on special professional qualifications,
- Decree No. 214/1997 Coll., on quality assurance,
- Act No. 263/2016 Coll., Atomic Act
- ... and more.

## Classification of sources of ionizing radiation

- **Insignificant:** fire alarm,
- **minor:** more fire alarms,
- **simple:** dental x-rays
- **significant:** nuclear medicine, radiotherapy, CT, RTG, fluoroscopy equipment;
- **very significant:** nuclear reactor.

## Concepts

- **Applying expert:** A doctor or other medical professional who, within the scope of his qualifications given by special legal regulations, has clinical responsibility for medical radiation. The doctor of the radiodiagnostic department decides on the event. failure to perform an examination associated with medical radiation. **The Radiologist has the final say!**
- **Indicating physician:** A physician indicating medical radiation according to a special legal regulation.
- **Medical radiation':** May be performed only if the benefit outweighs the risk of radiation.

## Tests of radiodiagnostic equipment

- **Acceptance tests:** when accepting the device, it is carried out by a person with permission SÚJB.
- **Long-term stability tests:** 1x per year, performed by a person with permission SÚJB.
- **Operation stability tests:** are performed more often, performed by the operator himself.

## Links

### Related Articles

- Protection against ionizing radiation
- Portal: radiodiagnostics

### External links

- SÚJB: State Institute for Nuclear Safety (<https://www.sujb.cz/uvod/>)
- UNSCEAR: UN Scientific Committee on the Effects of Atomic Radiation (<http://www.unscear.org>)
- ICRP: International Commission on Radiological Protection (<http://www.icrp.org/>)

### References

- State Office for Nuclear Safety. *Decree of the State Office for Nuclear Safety No. 307/2002 Coll., on radiation protection. §4-7* [online]. [cit. 26.3.2023]. <<https://aplikace.mvcr.cz/sbirka-zakonu/ViewFile.aspx?type=c&id=3932>>.