



# NRC's Regulatory Framework

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at Nuclear Power Plants  
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# NRC Regulatory Requirements

- 10 CFR Part 20, (As Low as Reasonably Achievable – ALARA)
- 10 CFR Part 50, Appendix A (General Design Criteria - GDC)
- 10 CFR Part 50, Appendix I

## **10 CFR Part 20 – Standards for Protection Against Radiation**

- Dose Limits and ALARA
  - 40 CFR Part 190 (EPA criteria for entire fuel cycle)
- Monitoring and Surveying Requirements
- Reporting Requirements

## **10 CFR Part 50, Appendix A - GDCs**

- Minimum Requirements for Principle Design Criteria of Light Water Reactors
- GDC 60
  - Requires Control of the Release of Effluents
- GDC 64
  - Requires Effluent and Environmental Monitoring

## 10 CFR Part 50, Appendix I

- Supports requirements in 10 CFR Part 50.34a and 50.36a
- ALARA Based Effluent System Design Criteria
  - Includes Liquid and Gaseous Systems
- Regulatory Guide 1.109
  - Guidance for calculation methods for determining dose to members of the public for effluence

## **NRC Inspection**

- Reactor Oversight Process
- Resident Inspectors on site at each site supplemented by Regional Inspectors
- Graded approach to level of inspection
  - Minimum level which is supplemented by additional inspections based on licensee performance