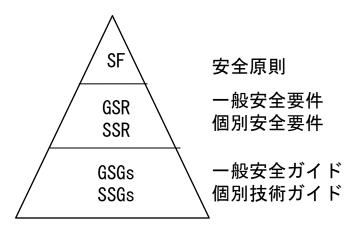
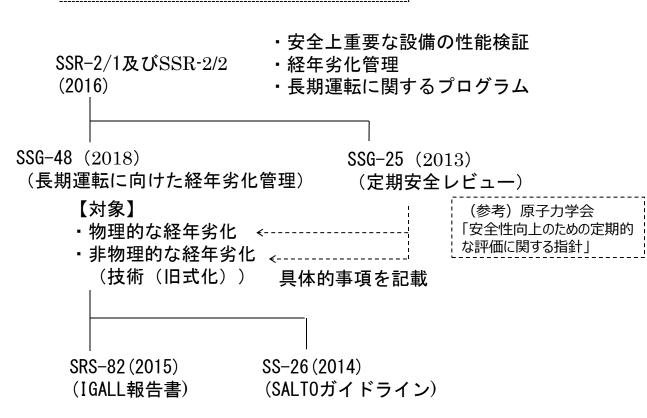
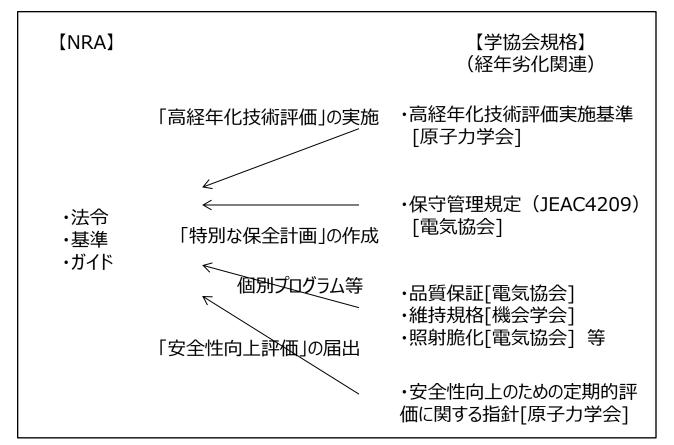
### IAEA文書体系



### LT0関連文書







【事業者】

[ATENA]

・「特別な保全計画」の作成 ・NRAへの申請 \_\_\_\_\_「特別な保全計画」ガイド ------作成方法の基本的考え方

## (参考) IAEAガイド (SSG-48)

# ● IAEAガイド「Ageing Management and Development of a Programme for Long Term Operation of Nuclear Power Plants」(SSG-48):

## IAEA Safety Standards

for protecting people and the environment

Ageing Management and
Development of a Programme for
Long Term Operation of
Nuclear Power Plants

Specific Safety Guide No. SSG-48



This Safety Guide provides guidance for operating organizations on implementing and improving ageing management and on developing a programme for safe long term operation for nuclear power plants that, among other aspects, takes due account of ageing management.

Ageing management for nuclear power plants is implemented to ensure that the effects of ageing will not prevent structures, systems and components (SSCs) from being able to accomplish their required safety functions throughout the lifetime of the nuclear power plant (including its decommissioning) and it takes account of changes that occur with time and use. This requires addressing both the effects of physical ageing of SSCs, resulting in degradation of their performance characteristics, and the non-physical ageing (obsolescence) of SSCs (i.e. their becoming out of date in comparison with current knowledge, codes, standards and regulations, and technology).

- 1章 はじめに
- 2章 基本的概念
  - •経年劣化管理
  - ・旧式化の管理
  - ・長期運転に関するプログラム
- 3章 原子力発電所の全運転期間にわたる経年 劣化管理
  - •設計
  - ・製造と建設
  - •試運転
  - •運転
  - •長期運転
  - •長期運転停止
  - •廃止措置
- 4章 関連プラント文書及びプログラム
  - ・安全解析報告書及びその他の現行の許認可ベース文書
  - ・構成及び変更管理プログラム (設計基準文書を含む)
  - ・プラント・プログラム
  - ・是正措置プログラム

### 5章 経年劣化の管理

- •組織体制
- ・データ収集・記録管理
- ・経年劣化管理レビュー
- ・SSCに関連する経年劣化の影響と劣化メカニ ズムの特定
- ・適切な経年劣化管理プログラムの特定
- ・経年劣化管理レビューの報告
- ・経年劣化管理プログラムの策定及び実施
- ・経年劣化管理プログラムのレビュー及び改善
- ·期間限定経年劣化解析(TLAA)
- ・経年劣化管理の文書化(AMP)
- 6章 技術的旧式化の管理
- 7章 長期運転プログラム
  - •組織体制
  - ・長期運転の原則及びアプローチ
  - ・長期運転プログラムの開発
  - ・長期運転のためのSSCの検討範囲設定
  - ・長期運転に関する経年劣化管理レビュー
  - •期間限定経年劣化解析の再確認
  - ・長期運転を支持する文書
  - ・規制によるレビュー及び承認
  - ・長期運転プログラムの実施

TABLE 1. TYPES OF OBSOLESCENCE

	Subject of obsolescence	Manifestation	Consequences	Management
技術	Technology	Lack of spare parts and technical support  Lack of suppliers  Lack of industrial capabilities	Declining plant performance and safety due to increasing failure rates and decreasing reliability	Systematic identification of useful service life and anticipated obsolescence of SSCs Provision of spare parts for planned service life and timely replacement of parts Long term agreements with suppliers Development of equivalent structures or
規制 規格基準	Regulations, codes and standards	Deviations from current regulations, codes and standards for structures, components and software  Design weaknesses (e.g. in equipment qualification, separation, diversity or capabilities for severe accident management)	Plant safety level below current regulations, codes and standards (e.g. weaknesses in defence in depth or higher risk of core damage (frequency))	Systematic reassessment of plant safety against current regulations, codes and standards (e.g. through periodic safety review) and appropriate upgrading, back fitting or modernization
知識	Knowledge	Knowledge of current regulations, codes and standards and technology relevant to SSCs not kept current	Opportunities to enhance plant safety missed	Continuous updating of knowledge and improvement of its application