



ONR GUIDE			
Deterministic Safety Analysis and The Use of Engineering Principles in Safety Assessment			
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1. Following a fit for purpose review, T/AST/006 Issue 003 “Deterministic Safety Analysis and The Use of Engineering Principles in Safety Assessment” has been withdrawn. A replacement TAG is being produced.

2. The Fault Analysis SAPs, and in particular principles FA.4 to FA.9 and associated text, provide good guidance on how to perform Design Basis Analysis assessments and how such assessments should link to the SAPs Engineering Principles. Other standards and criteria to supplement the SAPs that may need to be specified in assessment reports should be selected, as appropriate, from the following:

- NS-TAST-GD-034 – Transient Analysis for DBAs in Nuclear Reactors
- WENRA Reactor Safety Reference Levels Appendix E – Design Basis Envelope for Existing Reactors
- IAEA GSR Part 4 – Safety Assessment for Facilities and Activities
- IAEA SSR2/1 – Safety of Nuclear Power Plants: Design
- IAEA SSG-2 – Deterministic Safety Analysis for Nuclear Power Plants

3. In the standard assessment report, section 2.2.1 should simply record (other than if NS-TAST-GD-034 is being applied) that there is no TAG for this technical area.

4. Where the above standards and criteria are considered insufficient / inappropriate for the circumstances, please seek the advice of the Fault Analysis Professional Lead