

APPENDIX I

NATIONAL ENVIRONMENTAL POLICY ACT COST-BENEFIT ANALYSIS GUIDANCE

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THIS IS A PLACEHOLDER AND IS INTENDED
TO GIVE AN INDICATION OF FUTURE CONTENT

Draft Outline

I.1 Purpose

I.2 Cost-Benefit Analysis for National Environmental Policy Act (NEPA) Reviews

I.2.1 Regulatory Requirements

I.2.2 NRC Guidance

I.2.2.1 NUREG-1555, "Standard Review Plans for Environmental Reviews for Nuclear Power Plants"

1. Assessment of Need for Power
2. Benefits
3. Costs

I.2.2.2 Regulatory Guide 4.2, "Preparation of Environmental Reports for Nuclear Power Stations"

4. Cost-Benefit Analysis
5. Economic and Social Effects of Station Construction and Operation

I.2.2.3 NUREG-1748, "Environmental Review Guidance for Licensing Actions Associated with NMSS Programs"

6. Cost-Benefit Analysis

I.3 Environmental Justice

I.3.1 Commission's Policy Statement

I.3.2 NRC Guidance

I.3.2.1 LIC-203, "Procedural Guidance for Preparing Environmental Assessments and Considering Environmental Issues"

I.3.2.2 NUREG-1748

I.4 Public Health

I.4.1 Severe Accident Mitigation Alternatives (SAMA)

I.4.1.1 NUREG-1437, "Generic Environmental Impact Statement for License Renewal of Nuclear Plants"

I.4.1.2 NEI 05-01A, "Severe Accident Mitigation Alternatives (SAMA) Analysis"

I.4.2 Severe Accident Mitigation Design Alternatives (SAMDA)

I.4.2.1 Design Certification – Generic

I.4.2.2 Combined License – Site-Specific

7. ESRP 7.2, "Severe Accident Analysis"
 - a. Level 1 and Level 2 PRA Information
 - i. Quantification of MAACS Input Parameters
8. NUREG/BR-0058 Appendix H Severe Accident Analysis

- 1 a. Averted Cost (averted public exposure costs + averted offsite property
- 2 damage costs + averted occupational exposure costs + averted onsite
- 3 costs)
- 4 9. ESRP 7.3, "Severe Accident Mitigation Alternatives Analysis"
- 5 a. Selection of Design Alternatives
- 6 b. Cost Screening Based on Averted Costs vs. Costs of the Alternatives
- 7 i. 7% and 3% Discount Rates
- 8 ii. Sensitivity and Uncertainty Analysis
- 9 **I.4.3 Material Licenses**
- 10 **I.5 References**