

**PREDECISIONAL**  
**BEING PROVIDED TO SUPPORT THE 2/7/2017 ACRS REGULATORY**  
**POLICIES AND PRACTICES SUBCOMMITTEE MEETING**  
**AND NOT TO SOLICIT EXTERNAL STAKEHOLDER FEEDBACK**

**APPENDIX H: SEVERE ACCIDENT CONSEQUENCE ANALYSIS**

Draft Outline

1. Introduction
  - a. Background
  - b. Purpose of document
2. Description of tools and capabilities
  - a. PRA information
  - b. MELCOR
  - c. MACCS
3. Severe reactor accident offsite consequence analysis
  - a. Scope based on regulatory problem statement
    - i. Scenario development
    - ii. Affected population of plants and affected parameters
  - b. PRA information and frequency weighting
  - c. Accident progression analysis
    - i. Sources of information
    - ii. MELCOR modeling approach
  - d. Off-site consequence analysis
    - i. Sources of information
    - ii. MACCS modeling approach
4. Supplemental analyses
  - a. Sensitivity analyses
  - b. Uncertainty analyses
  - c. Plant-to-plant variability analyses
5. Presentation of results - inputs to regulatory analysis
  - a. Early fatality risk
  - b. Latent cancer fatality risk
  - c. Population dose risk
  - d. Offsite economic cost risk
  - e. Key assumptions and uncertainties
6. References