

Level 3 PRA – Site Selection Criteria

High Priority – Necessary to meet project objectives, schedule, and budget

- Multi-unit site
- Licensee support

Medium Priority – Desire as many as possible to meet schedule and budget

- Scope and type¹ of licensee PRA
- Information availability
 - Electric cable raceway database
 - Seismic fragilities
 - PRA success criteria analyses
 - SAMA² analysis (e.g., MACCS2 input deck)
 - Consolidated source of design and licensing basis documentation
 - MELCOR input deck, representing as-built, as-operated plant
- Geographic location
 - External hazard profile
 - Nearby population (avoid isolated sites)
 - Agricultural land use
 - 50-mile radius within U.S. borders
- State-of-the-art reactor consequence analyses (SOARCA) plant
- Shared systems between units

Low Priority – Desired, but of less significance than medium priority criteria

- Plant design type (e.g., representative of a large number of plants)
- Independent spent fuel storage installation

¹ Licensee PRA based on linked fault tree method is preferred over large event tree (support state) method

² SAMA – Severe Accident Management Alternatives