

Work Plan Outline

Task Group 2: *Vulnerability Assessment of a Terrorist Attack on a Generic Nuclear Power Plant*

2.1. Discussion of vital areas of a generic NPP

- 2.1.1. Main control room
- 2.1.2. Fresh fuel storage
- 2.1.3. Containment/Nuclear island
- 2.1.4. Emergency power supply
- 2.1.5. Turbine
- 2.1.6. Cooling system
- 2.1.7. Spent fuel storage pool
- 2.1.8. Spent fuel dry storage
- 2.1.9. Low-level waste

2.2. Discussion of different generic NPPs

- 2.2.1. PWR (most common – use as model. George)
- 2.2.2. BWR
- 2.2.3. CANDU
- 2.2.4. RBMK
- 2.2.5. AGR gas reactor

2.3. Scenarios of terrorist attacks

Description of the 15 scenarios

2.4. Vulnerability of vital areas to attack scenarios

Items 2.3.1. to 2.3.15 in Table 1.

For each scenario, description of the attack mode, impact on NPP area, probability of occurrence, probability of success, damage to plant components, release of radioactivity?
(Use one generic design, that of a PWR. George)

2.5. Analysis and ranking

2.5.1. For each of the 15 scenarios

- Summarize likelihood
- Summarize consequences

2.5.2. Rank groups of scenarios (low, medium, high)

- By likelihood
- By consequence