

Appendix 3

Scenario Library



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Type	Realistic Scenario
Bushfire	<p>The scenario outlines that the Bureau of Meteorology has projected seven consecutive days of temperatures exceeding 40 degrees in Perth, Western Australia. On the last day of the heatwave, an easterly wind change is forecast in the evening, followed by a bushfire event.</p> <p>Widespread consequences are experienced across the South West region of the state from the heatwave affecting public transport, power outages, and flow-on effects. Eight fires of significance occur, with two in the South West region and one in the Perth Hills. Two fires of high impact consequences occur, one in a National Park in the South West region and another in a State Park in the South West region. Four fires of extended duration (28 days) occur in the South West and Great Southern regions.</p>
Earthquake	<p>The scenario is modelled on a magnitude 5.2 event centred under the CBD of the City of Perth, Western Australia. This event corresponds with the recurrence interval for ground shaking of approximately 500 years, as defined in the current building regulations.</p> <p>The damage predicted for this scenario indicates significant damage to older buildings on softer soil sites, with many severely damaged. A small number of road and rail bridges are damaged. The shaking, however, will require an extensive and systematic survey of central Perth buildings and infrastructure to assess serviceability immediately after the earthquake.</p> <p>Disruption to other infrastructure is also anticipated due to the tripping of electricity transformers, some substation damage, and the loss of the operation of traffic signals and wastewater pumping due to lost electricity supply. Collectively, these consequences are consistent with an earthquake event that is at the threshold of causing severe damage in Perth, Western Australia.</p>
Pandemic	<p>The pandemic influenza scenario outlines that the Australian Health Protection Principal Committee (AHPPC) has met, and Australia has declared that we are in the Initial Action stage of a pandemic. Within (3) three weeks, Western Australia has 10,000 cases (2,500 require hospitalization, and of those, 1,000 have died).</p> <p>Cases are also occurring in every other State/Territory as well as spreading across the world. Hospital emergency departments and general practices are overwhelmed with cases and potential cases as well. Selected school closures are taking place. Parts of the community are entering voluntary quarantine and isolation. Western Australia has up to 580,000 cases (presumptive). The duration of the pandemic in Australia could be two years.</p>

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Flooding	<p>The scenario describes major impacts from flooding in the Swan Coastal Plain area and some minor flooding in the Perth Metropolitan and Mandurah areas, primarily affecting residential areas, local roads and farmland. This flooding has occurred after several years of drought in Western Australia.</p> <p>Two weeks after the flood occurred, a large band of severe thunderstorms is moving across the state, resulting in severe flash flooding across the Mandurah area and hail up to 7cm in size across the Central and Western parts of Perth.</p>
Electrical Supply Disruption	<p>There is an issue with the transmission of power from the Collie Power stations to the South West Grid, compounded by a loss of power from the Kwinana Power Station on Boxing Day.</p>
Hazmat	<p>The scenario models a truck carrying a large load of hazardous chemicals for mining that overturns on the Tonkin highway. A rupture has occurred, and a large quantity has escaped. The gas plume is affecting an area of 10km downwind from the accident and spreading 2km wide.</p> <p>There are no hostile acts as part of this scenario.</p>
Animal Disease	<p>The scenario outlines an outbreak of foot and mouth disease that has occurred at a saleyard in the Peel region. On further investigation, it is found to have started at a dairy farm. Three properties are quarantined, a 3km radius is formed around the infected properties, and many animals requiring destruction are identified.</p>