# Individual Fatality Risk Criteria for Land Use Safety Planning

## A. New Facility

Land Use	Suggested Criteria (risk in a million per year)
Hospitals, schools, child-care facilities, old age housing	0.5
Residential, hotels, motels, tourist resorts	1
Commercial developments including retail centres, offices and entertainment centres	5
Sporting complexes and active open space	10
Industrial	50

# B. Existing Facilities

Risk Level at Residential Land Use (Risk in a million per year)	Suggested Approach
Above 10	<ol> <li>Ongoing risk reduction and safety reviews at the existing facility.</li> <li>No residential intensification</li> </ol>
Between 10 and 1	No residential intensification
Below 1	No restrictions on residential intensification



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<b>Hazards</b> Key DG transport hazards associated with the BIP and Port Botany Facilities		
Qenos:	Huntsman:	
Polymer Grade Polypropylene	• Ethylene Oxide	
(PGP)	Propylene Oxide	
<ul> <li>Liquefied Petroleum Gas (LPG)</li> </ul>	Orica:	
<ul> <li>Iso Hexane</li> </ul>	Liquid Chlorine gas	
• Hexene	Port Botany Facilities:	
	• LPG	
	Class 3 materials (eg petrol)	
▲ scott lister DG-Transpo	stide 4	









# Worst Case 2012 – Individual Risk

### DPE Individual Risk Criteria

Sensitive	0.5 in a million
Residential	1 in a million
Commercial	5 in a million
Sports areas	10 in a million
Industrial	50 in a million



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# **Current Case** 2014 – Individual **Risk**

**DPE Individual Risk Criteria** 

Sensitive Residential Commercial Sports areas Industrial

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0.5 in a million 1 in a million 5 in a million 10 in a million 50 in a million















7/4/2014

