

ANZ level 2 Task Risk Assessment – Risk Assessment Details

BPD020209B

ANZ TRA Consequence Impact Level

Consequence Impact Level	Health & Safety	Environment	Non Financial Impact
D (inclusive of A,B &C)	3 or more fatalities (or onset of life-threatening health effects) 30 or more injuries or health effects, either permanent or requiring hospitalisation for more than 24 hours.	Future impact as below or greater- Extensive damage to a non-sensitive environment or localized damage to a sensitive environment, all of which can be restored to an equivalent capability in a period of around 1 year. Widespread damage to a non-sensitive environment or extensive damage to a sensitive environment, all of which can be restored to an equivalent capability in a period of months.	Severe enforcement action or loss of licence to operate, in respect of a material asset in any market, or any asset or in a major market, (US, European Union (EU), Russia) or the threat of global loss of licence to operate. Interventions from governments. Public or investor outrage. 'Interest group' outrage in a major market. Prolonged adverse national or international media attention. Widespread adverse social impact. Damage to relationships with key stakeholders of benefit to the Group or segment.
E	1 or 2 fatalities 10 or more injuries or health effects, either permanent or requiring hospital treatment for more than 24 hours	Future impact- Localized damage or extensive damage to a non-sensitive environment, which can be restored to an equivalent capability in a period of around 1 year, or a period of months, respectively. Localized damage or extensive damage to a sensitive environment, which can be restored to an equivalent. capability in a period of months, or a period of days or weeks respectively.	Other adverse enforcement action by regulators. Limited 'interest-group' outrage Short-term adverse national or international media coverage. Damage to relationships with key stakeholders of benefit to the Strategic Performance Unit (SPU).
F	Permanent partial disability(ies) Several non-permanent injuries or health impacts. DAFWC (Days Away From Work Case)	Future impact- Localized damage to a non-sensitive environment or an immediate area damage to a sensitive environment all of which can be restored to an equivalent capability in a period of months. Extensive damage to a non-sensitive environment or localized damage to a sensitive environment all of which can be restored to an equivalent capability in a period of days or weeks.	Regulatory compliance issue that does not lead to regulatory or other higher severity level consequence. Prolonged local media coverage. Local adverse social impact. Damage to relationships with key stakeholders of benefit to the Performance Unit (PU).
G	Single or multiple recordable injury or health effects from common source/ event.	Future impact- Immediate area damage or localized damage to a non-sensitive environment, which can be restored to an equivalent capability in a period of months or in a period of days or weeks, respectively. Future impact with localized damage to a non-sensitive environment and that may be restored to an equivalent capability. Immediate area damage to a sensitive environment that can be restored to an equivalent capability in a period of days or weeks.	Short-term local media coverage. Some disruption to local operations, e.g., loss of single road access less than 24 hours.
H	First aid Single or multiple over-exposures causing noticeable irritation but no actual health effects	Future impact with immediate area damage to a non-sensitive environment that can be restored to an equivalent capability in a period of days or weeks.	Isolated and short-term complaints from neighbours, (e.g., complaints about specific noise episode).












ANZ TRA Risk Matrix

		Probability				
		1	2	3	4	5
Consequence	Impact Level	Remote possibility - A similar event has not yet occurred in our industry	Similar event has occurred somewhere in our industry and within the BP group	Likely to occur once or twice in lifetime of the facility	Event likely to occur several times in the lifetime of the facility	Common occurrence (at least annually) at the facility
	D	H	VH	VH	VH	VH
	E	L	M	H	VH	VH
	F	L	M	H	H	VH
	G	L	L	M	H	H
	H	L	L	M	M	H

Definitions for Risk Level Score

- L = Low Risk
- M = Medium Risk
- H = High Risk
- VH = Very High Risk & Not Allowed

ANZ TRA Source of Energy

<p> Biological - covers the many sources of energy in life forms, including wildlife and viruses or bacteria, e.g., as found in sewage systems, drain lines, cooling towers).</p> <p> Body Mechanics - human strength and agility applied to a task involving lifting, pushing, pulling, climbing or positioning.</p> <p> Chemical - energy in the form of reactive or like-threatening gases, liquids, solids, e.g., water, methane, inert gases, process chemicals, hydrocarbons, LPG etc..</p> <p> Electrical - includes all types and voltages of electricity including high voltage power systems (Alternating Current (AC)), battery systems (Direct Current (DC)) and static.</p>	<p> Gravity - a naturally occurring energy that causes tools, equipment or people to fall or move. This affects lifting task, work at height and potential dropped objects.</p> <p> Mechanical - includes mobile equipment as well as moving parts on stationary equipment and rotating equipment. Even though items are non-powered, their momentum as they are moved may crush or cut people or vulnerable equipment. Also includes sharp edges of tools and / or equipment.</p> <p> Noise - A form of pressure energy. Consideration should be given to whether:</p> <ul style="list-style-type: none"> • The task is in a high noise area. • Noisy tools / equipment will be used. • Noise could cause communication problems, including in any emergency. <p> Pressure - air, water, pneumatics, springs, gases are all possible sources of significant pressure energy.</p>	<p> Radiation - in the form of sunlight, radio waves or ionizing radiation (radioactivity).</p> <p> Thermal - energy associated with hot or cold surfaces and fluids, undesired chemical reactions and / or ambient temperatures.</p> <p>Also, consider</p> <p>SIMOPS - Simultaneous Operations around the Job Site</p> <p>Human Factors - Consideration should be given to the following</p> <ul style="list-style-type: none"> • Clear Work Procedure & Control of Work documentation • Team behaviours' in Risk Assessment • Recognizing hazards introduced by humans • Communication • Cultural aspects • Competency • General Public • Physical Attributes
<p>Consideration should be given to whether the task:</p> <ul style="list-style-type: none"> • Requires equipment related to the task or in the area of the task to be isolated. • Involves electricity powered equipment. • Is in an area where there is vulnerable electrical equipment such as insulated cabling, un-insulated overheads power lines, etc. • Involves transfer of fluids, powers, etc. or friction between non- conducting materials which could generate static electrical charges. Are systems and equipment where this could occur adequately grounded and / or bonded. <p>Consideration should be given to:</p> <ul style="list-style-type: none"> • Non-Return Valves (NRVs) where system contents may be trapped between the NRV and an isolation point. • Section of equipment in which trapped or undrained contents may remain. • General equipment / line condition, e.g., area of corrosion, where a pressured leak is foreseeable. • Reaction forces from a pressure leak, which may move an unrestrained item, such as a hose, cylinder or pipe segment. <p>HIERACHY OF CONTROL</p> <ul style="list-style-type: none"> • L1 – Elimination • L2 – Substitution • L3 – Engineering • L4 – Isolation • L5 – Administrative • L6 - PPE <div style="text-align: right;">  <p>Most effective</p> <p>Least effective</p> </div>		



BP Australia Pty Ltd

Level 2 TRA Task Details

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Work Permit Set Number:

Date Performed:

TASK	SoE	HAZARDS	CONTROLS	RESIDUAL RISK			RESPONSIBLE PERSON
				C	P	RISK LEVEL	NAME REQUIRED
List the tasks required to perform the activity in the sequence they are carried out	List the relevant Source of Energy	Describe all hazards identified for each TASK. You must consider Task Hazards, Job site hazards, Process hazards, SIMOP's and Human Factors	Describe all controls applicable for each hazard. Use the Hierarchy of Controls with use of the reference card.	Decide on the Level of Risk using the Level 2 RA Matrices. Is the TASK safe to Do?			Who is responsible to implement the control measure identified?