

Vault ID #	Task/Area where hazards exists	Hazard – what can cause harm	Potential outcome – what can happen	Likelihood	Consequences	Risk Rating (Inherent)	Required Control Measures List the control measures required to eliminate or minimise the risk of illness or injury for each hazard identified	Frequency of Monitoring or Action Date	Personnel Responsible The person required to action the control measure	Eliminate	Minimisation Control Type	Likelihood	Consequences	Risk Rating (Residual)
Assumptions: Provisions of the Approved Code of Practise will apply to all operations as the minimum required standard and will not be re-visited in the control plans below (inclusive of PPE, emergency items, standard operating procedures, maintenance of plant & equipment to manufacturers specifications, training and supervision practices).														
4211	Storage – Log Stacks & Binwood Log yard/3PY	Log stacks Over capacity/high stock build Lack of visibility Row collapse Mobile plant Fixed Plant - chainshot zones HVs	Fatality Serious-Minor injuries Property Damage	B	5	E	- Segregation – logyard/3PY no pedestrian zone, 3PY worker control zones - Traffic management plan with mapping & signage - RT comms plan - Dust control cannons (for visibility & health factors) - Stock level monitoring, electronic (focus pts Xmas & Easter stock build) - Log storage planning & demarcation - Minimum Approach distances (MADs) to be applied – 70m processor (chain shot), 21m loader (grab or bucket), lowered 6m 1.5x swing radius of boom - Minimum visual distance; with grab 21m, without grab 7m - Minimum road width; 6m or with grab 8m - Minimum stack separation; log length plus 1m each side - Maximum stack height; pruned 2.5-3m, saw log 4-5m - Log storage audits - Bookend placement & height restrictions (do not exceed bookend height) - Reversing camera’s and/or alerts in mobile plant where possible, maintain visual - Isolation procedure for required Pedestrian access with operator approval - Machine protective structures, ROPs, Ops	All times All times All times All times As req All times Weekly All times All times All times All times	Pan Pac/All Pan Pac Pan Pac/All Pan Pac/All Pan Pac/ Contractor Contractor Contractor Contractor Contractor Contractor/All Contractor	X	I A A Eng A I, A A Eng Eng I A	C	5	H
5213	Gantry cranes – trailer loading (log cartage register)	Rope under tension Lift motor Hoist failure Electric shock	Fatality Serious or minor injuries Asset Damage (ML Perm Disablement)	B	5	E	- Gantry crane certified (SCE) - Scheduled gantry servicing & inspection 1/4ly (SCE) - Regular greasing of wire ropes (SCE) - Signage includes SWL - Physical barriers ped v mobile plant - Road marking and blind spot mirror in place for truck alignment - Protection of hand controller hitting frame (Mill site) - Maintenance Contacts available for breakdowns	Annual Quarterly All times All times All times All times All times Bi-annual	Pan Pac Pan Pac Pan Pac Pan Pac Pan Pac Pan Pac Pan Pac Pan Pac	X	A Eng A A Eng A A A	C	5	H
5221	Operations – Alcohol & other drugs	Workers under the influence of drugs and alcohol (escalation)	Fatalities, serious injuries, addiction	C	5	H	- Pan Pac Alcohol and other substances procedure - No person to be under the influence of drugs or alcohol - Staff education sessions - Report any suspicious behaviour suggesting a person may be impaired	All times	Pan Pac All persons Pan Pac All persons	X	A A A A	D	5	M
5222	Operations – Stress and fatigue	Stress – work load, interactions Fatigue	Injuries and illness	B	3	H	- Pan Pac Fatigue Management; 13 hour work day max, 10 hour break min - Plan and prioritise workload	All times	Pan Pac Contractors	X	A A	D	1	L
5238	Overlapping Duties Other operations (working with or in close proximity)	Traffic Machine on person Machine on machine, Hazardous Substances Unauthorised entry Chainshot	Fatality Serious-Minor Injury (acute or chronic) Unsavoury interactions	C	5	H	- PP contractor pre-qualification, induction & monitoring - Segregation zones - Traffic management plan with mapping & signage - Log infeed/3PY pick up zones warning lights (blue flashing) - Communication practises	All times	Pan Pac Contractor Pan Pac/contractors Contractors Contractors/all persons		A A A A A	D	5	M
5290	Loading/unloading trucks and trailers with logs	Loss of control – Logs/stems Machine failure Person hit by machine High stacks	Fatalities, Crushing injuries, Property damage	B	5	E	- Designated loading zone - Segregation, no pedestrian area (driver remains in cab) - Establish communication between truck driver and loader operator - Loading zone levelled and free from obstructions - Maintain documented load limit (SWL) - Machine protective structures, ROPs, Ops - Isolation procedure for required driver access with operator approval	On arrival All times All times All times All times All times	Contractors Contractor Contractor Contractor Contractor Contractor	X	A I A Eng A Eng	D	2	L
5292	Truck Wash operation, maintenance & cleaning	Open sump (waste) Recirculation bund H2S	Death (H2S or drowning) Infection	A	5	E	- Designated confined space, with signage - Segregation - chain barriers - Traffic management – 1 way - Pan Pac Permit to Work & Confined Space procedure procedure (PPP-PRO-S53) - Spill Kit - Contractor selection with training & experience	All times All times All times As required All times All times	Pan Pac Pan Pac Pan Pac Pan Pac PanPac Pan Pac/Contractor Pan Pac	X	A I A A A A A	B	5	M
5294	Access & Transit Log Yard/3PY /Truck Wash/Qube Portacom, R&M:	Vehicle/mobile plant movement 3 rd Party drivers Logs - loss of control Noise Foreign bodies Dust	Fatality, Serious injuries, Hearing loss, Property damage	C	3	H	- Segregation – logyard/3PY no pedestrian zone, 3PY worker control zones - Segregation barriers – R&M areas, scaling areas. Min Approach Distance 21m from rows, 12m without a grab - Traffic management plan with mapping & signage - Lighting - RT comms plan - Maintain visual distances & drive defensively - Dust control cannons (for visibility & health factors) - Reversing camera’s and/or alerts in mobile plant where possible - Isolation procedure for required Pedestrian access, loader operator approval - Minimum Approach distances (MADs) to be applied; 70m processor (twice length of longest log), 21m loader (or 6m lowered)	All times As required All times All times As required All times All times All times As required All times	Pan Pac/All Pan Pac/All Pan Pac/All Pan Pac/ Contractor/All Pan Pac Contractor Contractor/All Contractor/All Contractor/All Contractor/All Contractor/All	X	I I A Eng A A Eng Eng I I, A	D	3	M

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5295	All tasks Log Yard/3PY	Dust	Respiratory illness, eye irritation	A	4	E	- Sealed surface programme (on-going) - Cleaning (sweeping) contractors - Dust control cannons and mobile plant (for visibility & health factors) - Air quality monitoring (PM10 management procedure) - Exposure monitoring - Isolation – operators in cabs, doors closed in operation - Annual Health monitoring	On-going Weekly As required X Annual All times Annual	Pan Pac Pan Pac Pan Pac Pan Pac Pan Pac Contractors Pan Pac/Contractors	X	Eng A E Ang A I A	D	4	M
5296	Driving in yard Log Yard/3PY	Physical hazards Uneven ground open drains potholes	Body stressing Damage to machines	B	4	H	- Drains isolated or barriered off - Sealed surface programme (on-going) - Isolate or temporary fill of potholes - Maintenance - Machinery with pneumatic seats, ROPs and seatbelts	All times All times All times All times All times	Pan Pac Pan Pac Pan Pac Pan Pac Contractors	X	I Eng I Eng Eng	D	4	M
6385	Maintenance – P&E	Energy sources Pressurised fluids & air Falling from height Other operations Weather Tools	Fatality, cut, crush, foreign body, burns, sprain and strain injuries, fire, property damage and environmental damage. Chemical poisoning (acute, chronic)	A	5	E	- Segregation – designated, isolated & controlled maintenance areas (Qube physical barriers) - Designated hot work areas, monitoring - Isolation/Lock out/de-energise energy sources during machine maintenance - Follow all warning signage. - SDSs available and understood. - Correct tooling and attachments for the job.	All times All times All times All times All times All times	All persons Pan Pac/Contractor All persons All persons All persons All persons	X	I A E A A A	D	5	M
6386	Machinery Use Loading log decks, binwood Log Yard/3PY	Machine v machine Machine v person Saw blade projectiles (chainshot) Log processing Loss of control – logs Fire Noise Machinery access (incl heights) Maintenance Haz. Substances	Fatality Entanglement, cut or crush Foreign body injuries, Negative health impacts. Property damage Environmental damage	A	5	E	- Segregation – logyard no pedestrian zone, 3PY pedestrian control zones - Traffic management plan with mapping & signage - RT comms plan - Isolation procedure for required Pedestrian access (blue light), loader operator approval - Access procedure for machinery; RT call, positive acknowledgement, at rest - Isolation/Lock out/de-energise energy sources during machine maintenance - Minimum approach distances; - Processor 70m - Grab (raised) 21m, (lowered) 6m - Machine protective structures ROPs, OPs - Spill Kits - Fire equipment as per FOPs Manual 3pt of contact when accessing machinery	All times All times All times As required All times All times All times All times All times All times All times	Pan Pac/All Pan Pac Pan Pac/All Operators Operators Operators All Contractors Contractors Contractors Operators	X	I A A I Eng A I E A A A	D	5	M
6389	Underground services	Electric shock, fire, high volume water	Fatality, Electrocution/burns, Foreign body injuries, Property damage Environmental damage.	B	5	E	- Log Yard service mapping available & maintained - Pan Pac Permit to Work procedure (PPP-PRO-S53) - Pan Pac Excavation procedure (PPP-PRO-S12) - Isolation procedures - Safe Systems of Work planning & communication - Use hydrovaccing, cable location technology, potholing to confirm	All times All times All times As required All times All times	Pan Pac Pan Pac Pan Pac Pan Pac Pan Pac Pan Pac		A A A I A A	D	5	M
6438	All tasks and areas - In person - Via radio - Via other technology	Interpersonal Interactions - Bullying - Harassment	Short/long term health impact Medical treatment Time off Resignation	C	3	H	- Pan Pac Code of Conduct “the way we work” - Workplace Culture and Policies - Reporting procedures	At all times At all times All times	Pan Pac/Contractors Pan Pac/Contractors Pan Pac/Contractors	X	A A A	D	3	M
6453	Weighbridge	Fall from height (platform) Vehicles 600mm-1500mm	Head injury, Fracture Strain or sprain Property Damage	C	3	H	- Segregation – located in no pedestrian zone - Railing installed on off-side - Truck positioning (open side) when in use, 3 pts of contact - Temporary controls during maintenance 1 way zone	All times All times All times As required All times	Pan Pac Pan Pac Pan Pac/Contractor Pan Pac Pan Pac	X	I E A I A	E	3	L
6454	Scaling Operations Stocktake	Logs - controlled or uncontrolled Machinery Uneven surface Dust Extremes of temperature UV (see #5224)	Fatality, Physical injury, Melanoma, Lung function impairment	C	4	H	- Segregated area with physical barrier & low traffic - Minimum approach distance; - Log loaders 21m, - Qube buffer/safe zone 12m - Daily comms (tailgate) - RT Comms with operational team - JSEA applies - Additional PPE (rain wear, long sleeves, hat, sun screen, mask) - Qube mobile area isolation procedure & practices with ute mounted flag	All times All times All times As required As required As required As required	Pan Pac Pan Pac/Contractors Pan Pac/Contractor Contractor Contractor Contractor Contractor	X	I I, A A A A A I	D	4	M
6455	Access - Offices & maintenance areas Log Yard/3PY	Traffic Logs Hot Works Hazardous Substances Fire	Fatality, Fire	C	5	H	- Traffic Management Plan in place with mapping, pedestrian & parking only area - Water cannons - RT call ups - Temporary barriers - Workshop container(s) in place with canopy, protection from elements and fire controls - Hazardous substance controls, partial bunding, spill kit, auto dispensing, signage, SDS, 3PY sump - Fire control, extinguishers and hose, 1000L IBCs of water - Segregation controls implemented as required - Designated permanent Hot Works approval	All times As req All times As req All times All times All times As req All times	Pan Pac Pan Pac All Pan Pac/Contractor Contractor Contractor, all persons Contractor Contractor Pan Pac/Contractor	X	A Eng A Eng Eng A A A A	E	5	M