TSF Emergency Levels		
RNING LEVE	EMERGENCY CONDITION	REQUIRED ACTIONS
	Water Levels in the TSF, sediment pond and/or seepage collection pond rising but still under normal operating level.	Monitor water levels daily.
1	Minor surface erosion on embankment crest/slopes and/or pond slopes.	Repair as necessary.
		Determine the cause of the erosion.
		Re-check the reading again.
	Unusually high piezometer reading(s)	 Continue monitoring daily until readings return to normal. Otherwise see Level 3 Response.
2	Water Levels in the TSF, sediment pond and/or seepage collection pond near normal operating level and rising steadily.	Monitor water levels daily (or more).
		Open additional manhole inlets to facilitate drainage of the sediment ponds.
		Prepare to increase pumping capacity of the reclaim and/or seepage recycle pumps.
		Ensure portable pumps are available.
	Major erosion of on downstream slope or crest. Sediment build-up at the toe of the embankment from erosion.	Contact Design Engineer.
		Prepare to carry out corrective repairs.
	Soft toe condition or seepage at the downstream slope or toe.	Determine if water source is natural or from the tailings pond.
		Contact the Design Engineer.
		Commission a field investigation program.
		Prepare to carry out corrective repairs.
	Cracks developing at the embankment crest or slope	Conduct embankment walkovers daily until the problem is understood and addressed.
		Contact the Design Engineer.
		Monitor crack development (e.g. crack size, extent, etc.).
		Prepare to carry out corrective repairs Conduct embeddment welkewere deity until the problem is understood and addressed
	High turbidity in seepage collection flow	 Conduct embankment walkovers daily until the problem is understood and addressed. Take water samples for suspended solids determination twice a week.
		 Contact the Design Engineer.
		Prepare to carry out corrective repairs.
		Monitor water levels daily.
	Failure of Reclaim and/or Seepage Recycle Pumps	Ensure portable pumps are available.
		Repair or replace failed pumps ASAP.
		Stop tailings discharge.
	Tailings Pipeline blocked (and/or T2 Dropbox filled with tailings)	Flush pipeline with water to clear obstruction. Inspect the pipeline for damages or leaks.
		Clean out the dropbox.
		Determine the cause or reason for blockage.
		Re-check readings/measurements.
	Slope inclinometer and/or surface movement monument readings indicate significant deviation	Contact the Design Engineer.
		Check for embankment deformations following Level 3 recommendations.
		Discuss with the Tailings Co-ordinator. Sack activities from the Decise Engineer
	Any other situations which may lead to a potential emergency	 Seek advice from the Design Engineer. Check for Level 3 conditions.
		 Initiate chain of communications and ensure safety of people.
	Failure or suspected imminent failure of a dam (any reason)	 Stop tailings discharge into the TSF.
		 Monitor water levels every 3 hours if safe to do so.
		Lower pond by any practical means approved by the Design Engineer.
		Mobilize pumps and earthmoving equipment.
		Contact the Design Engineer.
		Construct confinement berms downstream of the embankment and ponds where feasible.
		Contact the Ministry of Energy and Mines.
	Water Levels in the TSF, sediment pond and/or seepage collection pond near maximum operating level.	Follow procedures in shaded box above.
		Conduct a detailed inspection of the TSF and ponds after pond levels have decreased.
		Re-check readings.
3	Unusually high piezometer reading(s) maintained over a few days.	Continue daily readings. Contact the Design Engineer.
		Contact the Design Engineer. Follow procedures in shaded box above.
	Slumping, sliding, or bulging of a dam slope or adjacent ground	Do not attempt construction of a stabilizing berm until the Design Engineer is on site
	Boils observed d/s of dam	 Follow procedures in shaded box above. Place granular filter buttress over the boils, if approved by the Design Engineer.
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	Water vortex within the pool	 Check d/s of the dam area for increased and/or turbid seepage discharge.
		 Place granular filter buttress against any such areas, if approved by the Design Engineer.
		Follow procedures in shaded box above.
	Large earthquake and significant loss of freeboard	Carry out detailed post-earthquake inspection of the dam with the assistance of the Design Engineer.
		Restore dam as directed by the Design Engineer.
		Stop pumping tailings.
		Check for erosion on the tailings embankment.
	Rupture of the tailings pipeline	Build confinement berms as necessary to contain the tailings.
		Clean up tailings.