SNotAB Job/Task Hazard Assessment Form													
Date of R	leview		Type of A	Gene Assessment	formation A Reference Number Revision # 0								
	Job Title/Task	SCDMS - Detec	THA Reference Number Revision # 0										
Job/Task Details	Description Location/ Equipment (if applicable)	Surface ware	Assessment Team Members (list each team member along with their designation and department) Alex Claveau - Project Co-ordinator Thejus Tom - EHS Technician										
Task Lead/ Supervisor				Line Manager Michel Seguin Line Manager Signature									
	 Job/Task Specific Training aming that is required for the		nature		Name		orklift Trainir		100100	1			
outside of th	he typical SNOLAB onboard	ling training.		Hazard Identifica				come applicable					
Instructions: (A) Break the job/task down into activities/steps. (B) For each step, identify the hazards. (C) For each hazard identify the specific consequences. (D) For each hazard, identify controls that SNOLAB already has in place. (E) Conduct a baseline risk assessment using SNOLAB's Risk Assessment Matrix. Select the Severity and Probability from the drop down lists in each cell. (F) Identify additional control measures required. For JHAs additional control measures will be the requirement of a THA. (G) Assign a party responsible for implementing the controls. (H) Conduct a final Risk Assessment to determine the residual risk. If the risk is not low, it may require additional controls (this section is not completed for JHAs).													
Step.#	Description of Activity/Step (A)	Hazards (B)	The state of the s		Baseline Risk Assessment With existing controls (E) Severity Probability Risk			Additional Control Measures / Actions (F)	(G)		2000	sk Risk	
1	Moving SCDMS Detector Tower Crate from SNOLAB Warehouse to VALE #9 Shaft Cage	High Mobile Equipment and Pedestrian Traffic Area Uneven Ground - Crate contents and or crate may shift Poor lighting and visibility	(Sensitive Equipment) - Would effect SNOLAB's Reputation as well as	Forklift Pre-operation inspection for model used Suitable PPE Protection Experience Forklift operator Maintain Constant communication between forklift operator and signaler Restrict Access to	Catastrophic		High	Thoroughly determine when forklift forks are fully engaged underneath Detector Tower Crate. Determine proper transportation travel path (Walkthrough* WALK the LINE*) prior to starting transporting task	Forklift Operator & One	Catastrophic		Medium	
			te may (Irreplacable Item) • Crushing Injuries / Pinch	Working Area for authorized personnel only (involved in this task) • Communicate will all parties (VALE and SNOLAB personnet and Equipment within Travel Area) • Good housekeeping practices will be maintained to avoid uneven ground	5	2	10	second worker verification of securement methods for Detector tower crate(verify rachet straps are secure) Re-using methods and pathways used in dilution fridge shipment reduces risk to items as loads/vibration were acceptable in this shipment		5	1	5	
SNOCAB			JOB	/TASK HAZARI) ASSE	SSMEN	Γ (JHA/	THA)		5.771. 1.			
Hazard Identification and Risk Assessment Continued Description of Consequences Baseline Risk Assessment Additional Responsible Residual Risk												sk	
Step #	Task Step (A)	Hazards (B)	People, Environment, Assets, Reputation (C)	Controls (D)	With existing controls (E) Severity Probability Risk			Control Measures/Actions	Party (Action By)	(H) Severity Probability Risk			
2	Detector Tower Crate Transportation from UG #9 Shaft Station to SNOLAB Site	As per 1. B Narrow Drift Opening 15 kV Electrical Lines hanging from Ceiling Original Windy Tunnel Transportation Path blocked, Alternate travel path (IM Shop) selected	crates reduces Forklift ening operator visibility when transporting crate Lines	Forklift Pre-operation inspection for model used Additional UG PPE equipment Required (including Radio caplamps, whistles for signalling) PC and forklift operator to walk the line prior to start of task (from UG #9	Catastrophic	Occasional	Hìgh	PC to walk area and signal Forklift Operator via whistle PC to Signal All Pedestrian as well as incoming and/or outgoing Mobile Equipment during crate transportation (VALE and or SNOLAB) second worker		Catastrophic	Remole	Medium	
			and or stuck Drift Opening unnet Walls and Ceiling / Back Path travel • Electrocution	Shaft Station to SNOLAB Site • Transport Crates at a slower then normal pace (Lowest speed as possible) • Maintain constant communication between PC and forklift operator when transporting crates from #9 shaft to SNOLAB Site.	5	2	16	verification of securement methods for Detector tower crate(verify rachet straps are secure) • Re-using methods and pathways used in dilution fridge shipment reduces risk to Items as loads/vibration were acceptable in this shipment		5	1	5	
SNOCAB	SNEAB JOB/TASK HAZARD ASSESSMENT (JHA/THA)												
	Description of	Hazards	Consequences	d Identification a Controls (D)	nd Risk Assessment Cont Baseline Risk Assessment With existing controls (E) Severity Probability Risk		Additional	Responsible Party (Action By) (G)	Residual Risk				
Step #	Task Step (A)	(B)	People, Environment, Assets, Reputation (C)				Control Measures/Actions						
3	Detector Tower Crate Transportation Inside SNOLAB	As per 2. B Crates Contents s potential during transportation Crates Disasser within Dirty Carw (Including top lid an walls)	Narrow Working area within Dirty Carwash Nails and or broken/sharp wood splinters (Nail and Wood Impalement)	Forklift Pre-operation inspection for model used Suitable UG PPE Equipment Housekeeping (disposal of each crate segment the moment it's removed from the crate)			Medium	Remove all potential slips, trips and fall hazards from Dirty Carwash area Predetermined methods and procedures for cleaning and transportation developed with FermiLab	Cleaner/Maintainer(1 or more) Forklift Operator & One (1) Signaller Project co-ordinator optional experimental	Critical	Remote	Low	
		Transfer Detector Tow from crate to SNOLAB clean pallet	100	Maintain constant communication between PC and forklift operator when transporting crates inside SNOLAB carwash.	5	1	5	Fermil.ab experts on- hand to provide additional information and safety guidance should unexpected events occur.	staff(to provide subject matter expertise)	3	1	3	