

POSITIVE ATTITUDE SAFETY SYSTEM INC.

A Positive and Proactive Approach for Managing Safety

Below is a list and short summary of Jim Burns' Construction Clients:

1. Project: **Kemano T2 Backup Hydro Tunnel**

Date of implementation:	2017	Location: Kemano BC (near Kitimat) Canada
Owned by:	Rio Tinto Alcan	Contractors: Hatch
Type of operation:	This \$500M second (backup) Hydro Tunnel to the Kemano Power Station to provide energy for Alcan Smelter in Kitimat.	
Size of the workforce:	Eventually 300 contractors, employees and staff on site at any one time	
Scope:	A tunneling machine will complete the remaining 7.6 KMs of tunnel and early works: upgrading the Horetzky road, building a camp and other infrastructures	



2. Project: **Holden Mine Remediation**

Date of implementation:	2016	Location: Remote Spot by Wenatchee WA USA
Owned by:	Rio Tinto.	Contractors: Numerous
Type of operation:	This \$500M Mine remediation project (closed in 1957) is a federally mandated cleanup located in a remote spot in Washington State	
Size of the workforce:	200-300 contractors, employees and staff on site at any one time	
Scope:	Reclamation and Remediation of 120 acres of an old Mine Site and PASS was only implemented and established during the last season of the project.	



3. Project: **Patterson Lake South**

Date of implementation:	2016	Location: North-Western Saskatchewan, Canada
Owned by:	Fission Uranium Corp.	Contractors: Bryson and Northspan Drilling
Type of operation:	Drilling Program of largest undeveloped uranium deposit in Canada's Athabasca Basin District	
Size of the workforce:	60-100 contractors, employees and staff	
Scope:	Numerous drills on the surface and also drilling on the frozen Patterson Lake	



4. Project: **Pumpkin Hollow**

Date of implementation:	2015	Location: Yerington, NV, USA
Owned by:	Nevada Copper Inc.	Contractor: Cementation USA
Type of operation:	Construction of the Underground and Production Shaft	
Size of the workforce:	80 contractors, employees and staff	
Scope:	Production shaft: 2,160" deep by 24" diameter, with two shaft stations and 600" of level development.	



5. Project: **Eagle Mine**

Date of implementation:	2015	Location: Marquette, Michigan, USA
Owned by:	Lundin Mining Corporation	Contractor: Cementation USA
Type of operation:	Construction of the Underground and Production Shaft	
Size of the workforce:	80 contractors, employees and staff	
Scope:	Work includes development of the main decline, level accesses, stope accesses and ventilation access drifts.	




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6. Project: **Bingham Canyon Mine (Kennecott Utah Copper)**

Date of implementation:	2015	Location: Salt Lake City Utah, USA	
Owned by:	Rio Tinto	Contractor: Cementation USA	
Type of operation:	Construction of the Underground and Production Shaft		
Size of the workforce:	80 contractors, employees and staff		
Scope:	At the base of this open pit, collared two portals and is driving an exploration ramp to another ore body and a dewatering tunnel		


7. Project: **Lucky Friday #4 Shaft Project**

Date of implementation:	2014	Location: Mullan, Idaho, USA	
Owned by:	Hecla Mining	Contractor: Cementation USA	
Type of operation:	Construction of the Shaft and Lateral Development		
Size of the workforce:	80 contractors, employees and staff		
Scope:	The sinking of an internal shaft and lateral development, excavation and construction of an underground hoist station and ore bins		


8. Project: **K3 Shaft (Construction)**

Date of implementation:	2012	Location: Esterhazy, SK Canada	
Owned by:	Mosaic Company (Potash)	Contractor: AMC	
Type of operation:	Construction of the Underground		
Size of the workforce:	250 contractors, employees and staff		
Scope:	Each shaft will be over 1,100 meters deep and diameter of 6.1 meters.		


9. Project: **Ranger Mine (Expansion) Ramp**

Date of implementation:	2010	Location: Jabiru (Darwin), NT Australia	
Owned by:	ERA (Rio Tinto)	Contractor: Macmahon	
Type of operation:	Construction of the Underground (3 Deeps Underground)		
Size of the workforce:	250 contractors, employees and staff		
Scope:	The decline near the operating mine (Pit 3)		

10. Project **Kestrel Coal Mine Extension (KME) Two Ramps**


Date of implementation:	2008 - 2013 (\$2B)	Location: Emerald Queensland Australia	
Owned by:	Rio Tinto	EPCM: KBR then Ausenco	
Type of operation:	construction of U/G coal mine and upgrades of coal preparation plant		
Size of the workforce:	2,000+ contractors, employees and staff (more than 6 million man hours)		
Scope:	Two new ramps; construction of a new longwall; eight kilometer Overland Conveyor; new office and bath house facility; plus a camp		

11. Project: **New Afton Gold Underground Mine (Construction) Ramp**


Date of implementation:	2008	Location: Kamloops, BC Canada	
Owned by:	New Gold	Contractor: Cementation	
Type of operation:	Construction of the Underground		
Size of the workforce:	120 contractors, employees and staff		
Scope:	Ramp/Decline and lateral development		

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12. Project: **Clermont Coal Mine (Construction)**

Date of implementation:	2007 - several years	Location: Clermont Queensland Australia	
Owned by:	Rio Tinto	EPCM: SKM	
Type of operation:	construction of open pit, coal preparation plant, workshop and camp		
Size of the workforce:	1200 contractors, employees and staff		
Scope:	State-of-the-art open pit coal mine and facilities (12.2 tonnes annually) with 13 Kilometers conveyor		


13. Project: **Totten Shaft (Construction)**

Date of implementation:	2007	Location: Sudbury, ON Canada	
Owned by:	Vale	Contractor: Cementation	
Type of operation:	Dewatering and rehabilitation of the Shaft		
Size of the workforce:	120 contractors, employees and staff		
Scope:	The dewatering and rehabilitation shaft of No.2 Shaft down (depth of 1260M)		


14. Project: **Nickel Rim South Mine (Construction)**

Date of implementation:	2004 - 2009 (PASS used since 2006 - last years of the project)		
Location:	Sudbury, ON Canada		
Owned by:	Falconbridge – Xstrata	Contractor: Cementation	
Type of operation:	Building Underground Mine		
Size of the workforce:	150 contractors, employees and staff		
Scope:	Sinking two shafts (Main 1,280M and Vent 1,480M) plus lateral development		


15. Project: **Resolution Copper Shaft (Construction)**

Date of implementation:	2006	Location: Superior, AZ USA	
Owned by:	Rio Tinto	Contractor: Cementation USA	
Type of operation:	Shaft Sinking		
Size of the workforce:	150 contractors, employees and staff		
Scope:	Sinking a 28ft or 8.5M diameter, concrete-lined shaft to a depth of 7,000ft or 2,150M with rock temperatures of 175°F or 79°C		

16. Project: **Coleman Shaft (Construction)**


Date of implementation:	2006	Location: Sudbury, ON Canada	
Owned by:	Inco	Contractor: Cementation	
Type of operation:	Shaft Sinking		
Size of the workforce:	200 contractors, employees and staff		
Scope:	The sinking of a 1,280 m (4,200-foot) exhaust shaft		

17. Project: **Hail Creek Coal Mine (Expansion)**


Date of implementation:	2006	Location: Mackay, QLD Australia	
Owned by:	Rio Tinto	General Contractor: Thiess Sedgman Joint Venture	
Type of operation:	Major expansion to all the facilities and pit		
Size of the workforce:	1,200 contractors, employees and staff		
Scope:	Expansion to increase production from six million to eight million tonnes annually		

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18. Project: **Diavik Diamonds (Construction) Ramp**

Date of implementation:	2004	Location: North of Yellowknife, NWT Canada	
Owned by:	Rio Tinto	Contractor: Cementation	
Type of operation:	Building of the Underground and its facilities		
Size of the workforce:	300 contractors, employees and staff		
Scope:	Developing a 3.5-kilometer (2.1 mile) decline with underground mine operation		


19. Project: **Hail Creek Coal Mine (Construction)**

Date of implementation:	2001-2003 (25 months)	Location: Mackay, QLD Australia	
Owned by:	Rio Tinto	Contractor: Hatch	
Type of operation:	Greenfields Coal Mine (5.5M tonnes annually)		
Size of the workforce:	750 - 1500 contractors, employees and staff		
Scope:	Open cut mine, using a dragline, truck and shovel method		


20. Project: **Kiln # 2 (Shutdown)**

Date of implementation:	2001	Location: Glenbrook New Zealand	
Owned by:	BHP Steel		
Type of operation:	Refit and upgrade of Kiln #2		
Size of the workforce:	2000 contractors, employees and staff		
Scope:	Short term and high performance and risk project		


21. Project: **Ekati Diamonds (Expansion) Ramp**

Date of implementation:	The summers of 1999-2001	Location: Ekati Diamonds site (NWT Canada)	
Owned by:	BHP		
Type of operation:	Expansion of their mill and support structures		
Size of the workforce:	1000 contractors, employees and staff (Construction Alliance)		
Scope:			

22. Project: **MHF/Kiln #1 (Shutdown)**


Date of implementation:	2000	Location: Glenbrook New Zealand	
Owned by:	BHP Steel		
Type of operation:	Refit and upgrade of the Multi-hearth and Kiln #1		
Size of the workforce:	2000 contractors, employees and staff		
Scope:	Short term and high performance and risk project		

23. Project: **Refit of FSPO (Jabiru Venture)**


Date of implementation:	1996	Location: Darwin, NT Australia	
Owned by:	BHP Petroleum		
Type of operation:	Refit of the upgrader and the FSPO		
Size of the workforce:	300 contractors, employees and staff		
Scope:	Intense and short term project with workers barging out to the Ship		

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24. Project: **Boyne Smelter Expansion**

Date of implementation:	1994 (26 months; six months early and within budget, \$1B)	
Location:	Gladstone QLD Australia	
Owned by:	Comalco – CRA (now Rio Tinto)	
Type of operation:	Third Reduction line for Aluminum Smelter	
Size of the workforce:	1000-2000 contractors, employees and staff	
Scope:	The continuous build of a line. “The expansion used innovative management structures and safety systems to achieve industry best practice” CEO Terry Palmer	


25. Project: **Century Mine**

Date of implementation:	1994 (over several years)	Location: Queensland	
Owned by:	CRA and the sold to Pasminco		
Type of operation:	Open Pit Zinc Mine		
Size of the workforce:	750+ contractors		
Scope:	The Shaft was completed; PASS implemented during construction of Process Plant and lateral development		

26. Project: **Hismelt**

Date of implementation:	1992-93 (several years)	Location: Kwinana (Perth) WA Australia	
Owned by:	CRA (Rio Tinto) and Kobe Steel		
Type of operation:	Iron Smelter - Construction, Commissioning and Operating		
Size of the workforce:	500 contractors, employees and staff		
Scope:	Construction and commissioning of the world's first commercial direct smelting process for making iron straight from the ore		

27. Project: **Peak Gold Mines**

Date of implementation:	1991 (involved at final stages of the project, surface facilities)	
Location:	Cobar NSW Australia	
Owned by:	CRA (Rio Tinto)	
Type of operation:	Underground Gold (and Copper)	
Size of the workforce:	300 contractors, employees and staff	
Scope:	Construction of Mine, Process Plant, Camp Facilities and Infrastructure	

Summary of Jim Burns’ non-PASS projects experience:

In addition to Jim Burns’ knowledge and experience in implementing PASS at projects sites, he has taught and delivered Kepner-Tregoe ‘Project Management’ Courses throughout Canada. His clients included Petro Canada, Manitoba Power, Boeing Canada, Atomic Energy Canada (Manitoba and Ontario), New Brunswick Power as well as numerous small natural resource industries and companies in Western Canada. In addition to the thousand plus professionals that attended his courses, Jim also provided K-T consulting services for significant and high profile projects, such as: Boeing’s 777, costing 6-8B\$ and was the world’s largest “design-build” project.



PASS Inc.
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