

6951 Westminster Highway, Richmond, BC
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The *Workers Compensation Act* requires that the employer must post a copy of this report in a conspicuous place at or near the workplace inspected for at least seven days, or until compliance has been achieved, whichever is the longer period. A copy of this report must also be given to the joint committee or worker health and safety representative, as applicable.

Inspection Report #201516067048A

Employer Name	Jobsite Inspected	Scope of Inspection
RIO TINTO ALCAN INC.	Kitimat Smelter Kitimat Works KITIMAT BC	RIO TINTO ALCAN INC.

Date of Initiating Inspection	Date of This Inspection	Delivery Date of This Report	Delivery Method
Jun 26, 2015	Jun 26, 2015	Jun 26, 2015	Email

THERE ARE ZERO (0) ORDERS OUTSTANDING

<p>ACTION MAY STILL BE NECESSARY TO ENSURE COMPLIANCE PLEASE READ FULL REPORT</p>
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INSPECTION NOTES

I met with management and worker reps to review the following items;

1. Personal grounding requirements when working around S & C Vista electrical distribution Switchgear. Please see the regulations referenced for more information. My findings on the subject were found by referring to the Occupational Health & Safety Regulation(OHSR), OHSR Guidelines, National Electrical Safety code C2 2007, and the BC Hydro SPR(for reference only). This applies to all connected services.

2. Electrical panel isolations. Circuit breakers can be considered an energy isolating device if the breaker physically prevents the transmission or release of an energy source to machinery or equipment. The breaker must be locked out. Refer to page 4 of the WorkSafeBC publication BK21 Titled Lockout.

3. Automated systems. The employer will be using interlock systems including gates as per safeguarding requirements. The employer advises the systems have been installed as per current standards. I provided the employer with a list including the CSA Z 432 1994 & 2004 standards for risk assessment and the CSA Z 434 2003 Robotics standard to ensure the employer can validate the system. I also referred to OHSR 27.5(1)(2) for guidance.

Plans are to provide workers with a means to enter the areas during "normal production" as opposed to performing "maintenance". The means will include applying a lock to the interlocked gate stopping the equipment during normal production activities. Strict adherence to procedures will be required during this process to ensure lockout violations do not occur.

"maintenance" means work performed to keep machinery or equipment in a safe operating condition, including installing, repairing, cleaning, lubricating and the clearing of obstructions to the normal flow of material;

"normal production" means work that is routine, repetitive, and integral to the normal use of machinery or equipment for production;

The relationship between safeguarding and lockout:

It is important to distinguish between safeguarding and lockout. Safeguarding is the first line of defense in ensuring the safety of workers operating powered machinery and equipment. Lockout protects workers when machinery or equipment is shut down for maintenance (including repairs and clearing jams). In all cases, training and supervision are essential to ensure worker safety around machinery. For information on WorkSafeBC requirements for locking out equipment, please see the WorkSafeBC booklet Lockout.

Please don't hesitate to contact me for any assistance.

Earl Houlden - Occupational Safety Officer - WorkSafeBC
250-615-6632 desk - 250-615-8148 cel - 250-615-6633 fax
ehoulden@telus.net
4450 Lakelse Ave. Terrace BC V8G 1P2
Incident reporting - 1 888 621-SAFE (7233)

REFERENCES

In addition to any orders and the information provided in the Inspection Notes in this Inspection Report, the officer may discuss other health and safety issues with the employer arising out of the inspection. The information below sets out the health and safety requirements discussed with the employer, and unless otherwise noted, violations of these requirements were not observed.

Reference	Details Discussed
<p>OHS19.16(1)</p> <p>High voltage electrical equipment must, if practicable, be completely isolated, grounded, and locked out as required by the Occupational Health and Safety Regulation before starting work on it.</p>	<p>It has been determined at present Personal grounding as per regulation and applicable standards is required in the circumstances presented by the employer.</p>
<p>OHS19.16(2)(a)</p> <p>If it is not practicable to completely isolate high voltage electrical equipment, written safe work procedures acceptable to the Board must be followed.</p>	<p>The employer can present to regulatory practices with respect to this regulation.</p>
<p>OHS19.22(3)</p> <p>Grounding and blocking of any equipment that may be hazardous to workers must be carried out as close as practicable to the worksite.</p>	<p>When applying personal grounding this principle was discussed.</p>
<p>OHS27.5(1)(a)</p> <p>A worker who is required to cross a green chain or transfer deck must be instructed in the hazards and proper procedures to follow.</p>	<p>b) ensure the transfer deck is stopped before crossing, and is restarted only after the crossing is completed, (c) cross only on fully decked locations where no hazard of falling exists and where safe means of access and egress have been provided, and (d) cross only in a space clear of material.</p> <p>(2) If a worker is required to access a transfer deck in order to control the flow of material as part of normal production work, the employer must ensure that (a) safe work procedures are established and, where practicable, posted adjacent to the machinery, (b) the worker is instructed in and follows the safe work procedures, (c) the transfer deck is stopped before access, (d) the worker accesses only fully decked areas, where there is no hazard of falling and where safe access and egress has been provided, and (e) the stop control devices cannot be overridden by another control device, or by another worker.</p>

Employer #	Mailing Address	Classification Unit #	Operating Location
54363	PO BOX 1800 KITIMAT BC V8C 2H2	712035	002

Lab Samples Taken	Direct Readings	Results Presented	Sampling Inspection(s)	Workers onsite during Inspection	Notice of Project Number
N	N	N		101	

Inspection Report Delivered To	Employer Representatives Present During Inspection	Worker Representatives Present During Inspection	Labour Organization & Local
Terri Taylor	Terri Taylor Javier Garcia	Mike Schmidt Dan Niekarz	

WorkSafeBC Officer Conducting Inspection
Earl Houlden

*Inspection Time	*Travel Time
6.00 hrs	2.50 hrs

*The time recorded above reflects the cumulative inspection time and travel time associated to the inspection activity cycle. Additional time may be added for subsequent activity.

Right to a Review of Orders

Any employer, worker, owner, supplier, union, or a member of a deceased worker's family directly affected may, within 90 calendar days of the delivery date of this report, in writing, request the Review Division of WorkSafeBC to conduct a review of an order, or the non-issuance of an order, in this report by contacting the Review Division. Employers requiring assistance may contact the Employers' Advisers at 1-800-925-2233.

WorkSafeBC values your feedback. To obtain that feedback, an external market research provider may be contacting you to complete a survey.