

6951 Westminster Highway, Richmond, BC
Mailing Address: PO Box 5350, Vancouver BC, V6B 5L5
Telephone 604 276-3100 Toll Free 1-888-621-7233 Fax 604 276-3247

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 #201616067017A

Employer Name	Jobsite Inspected	Scope of Inspection
RIO TINTO ALCAN INC. (KITIMAT PLANT, DIVISION OF)	Kitimat Smelter Kitimat Works KITIMAT BC	Wharf Operations Terminal B

Date of Initiating Inspection	Date of This Inspection	Delivery Date of This Report	Delivery Method
Feb 19, 2016	Feb 19, 2016	Feb 23, 2016	Email

THERE ARE ZERO (0) ORDERS OR OTHER ITEMS OUTSTANDING

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

This inspection was carried out by a WorkSafeBC Occupational Prevention Officer, to determine compliance with the Workers Compensation Act (WCA) and the Occupational Health & Safety Regulations (OHSR).

Items discussed and observations made:

- Follow up and progress regarding an incident involving stability of "superpack" ingot loads. Changes to the process have been made including some temporary measures, ie zip ties applied to banding. I observed the crew reject a load due to lack of "belly band" material. The crew removed it from the loading process to be banded. I was advised each load is inspected prior to lifting. Training was provided to crews by workers from other locations experienced with loading Superpacks.
- **Rescue baskets.** One is located at Terminal A and one is with Plant Protection Services. Another basket is under construction and will be located at Terminal B within days.
- **Air Monitoring** is conducted in the hold access stairwells. Workers are to check the monitor prior to entering the stairwell.
- **Confined Space:** except as otherwise determined by the Board, means an area, other than an underground working, that
 - (a) is enclosed or partially enclosed,
 - (b) is not designed or intended for continuous human occupancy,
 - (c) has limited or restricted means for entry or exit that may complicate the provision of first aid, evacuation, rescue or other emergency response service, and
 - (d) is large enough and so configured that a worker could enter to perform assigned work;
- **Confined Space exclusion factors:**
 1. The design, construction, location, and intended use of these spaces will ensure these spaces are characterized by clean respirable air at all times. **Note:** the ship's hold hatch was open during this visit.
 2. The space must have an interior volume of not less than 64 cubic feet per occupant.
 3. The space must have openings to the atmosphere that are known to provide natural ventilation. **Note:** the ship's hold hatch was open during this visit.
 4. There must be no potential for a high or moderate hazard atmosphere, as defined in section 9.1 of the Regulation, to exist or develop immediately prior to any worker entering the space or during any work within the space.
 5. There must not be a need to mechanically ventilate, clean, purge, or inert the space prior to entry for any reason.
 6. There must be no potential for a hazardous substance to migrate through any media (e.g., air, soil, conveyance, piping, or structure) to infiltrate the space.
 7. The space must be free of residual material (e.g., waste, sludge, debris) that if disturbed could generate air contaminants that could immediately and acutely affect a worker's health.
 8. There must not be any risk of entrapment or engulfment to workers entering the space.
 9. The space must not contain, have introduced, or be adjacent to tools, equipment, or involve processes that could generate air contaminants that could immediately and acutely affect a worker's health.

Earl Houlden | O.S.O. | WorkSafeBC
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4450 Lakelse Ave. Terrace BC V8G 1P2
Incident reporting - 1 888 621-SAFE (7233)

REFERENCES

In addition to any orders, or other items, and the information provided in the Inspection Notes section 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>OHS32.9</p> <p>If workers are required to work in places from which they could fall and drown, and are not protected by guardrails or other means of fall protection permitted by this Regulation, the employer must provide</p> <p>(a) a suitable rescue boat, equipped with a boat hook, available at the site and capable of being used for rescue at all times,</p> <p>(b) a buoyant apparatus attached to a nylon rope not less than 9 mm (3/8 in) in diameter, and not less than 15 m (50 ft) in length, and</p> <p>(c) a sufficient number of workers who are available when work is underway to implement rescue procedures and who are properly equipped and instructed in those procedures.</p>	<p>Rescue services are required when tying up the ship. The service is provided by the Tug Boat firm on site with the ship. Workers involved loading the ship were protected by a system of guardrails.</p>
<p>OHS15.31</p> <p>Slings and attachments must be visually inspected before use on each shift, and defective equipment must be immediately removed from service.</p>	<p>Discussed conducting an inspection on the synthetic web slings prior to use. The slings are the property of the ship owners and used to fly in wood and air bags used in the loading and securing of the Superpacks in the ship's hold.</p>

Reference	Details Discussed
<p>OHS15.54</p> <p>A synthetic fibre web sling must be removed from service when any of the following circumstances occurs:</p> <ul style="list-style-type: none">(a) the length of an edge cut exceeds the web thickness;(b) the penetration of abrasion exceeds 15% of the webbing thickness taken as a proportion of all plies;(c) abrasion occurs on both sides of the webbing and the sum of the abrasion on both sides exceeds 15% of the webbing thickness taken as a proportion of all plies;(d) warp thread damage up to 50% of the sling thickness extends to within 1/4 of the sling width of the edge or exceeds 1/4 the width of the sling;(e) warp thread damage to the full depth of the sling thickness extends to within 1/4 of the sling width of the edge or the width of damage exceeds 1/8 the width of the sling;(f) weft thread damage allows warp thread separation exceeding 1/4 the width of the sling and extends in length more than twice the sling width;(g) any part of the sling is melted or charred, or is damaged by acid or caustic;(h) stitches in load bearing splices are broken or worn;(i) end fittings are excessively pitted or corroded, cracked, distorted or broken;(j) a combination of the above types of damage of approximately equal total effect are present.	<p>Synthetic web sling rejection criteria. Illustrations are available online under this provision.</p>
<p>OHS9.2</p> <p>The employer must:</p> <ul style="list-style-type: none">(a) ensure that each confined space in the workplace is identified, and(b) determine whether any such space will require entry by a worker, either in scheduled work activities or as a result of foreseeable system failures or other emergencies.	<p>See inspection text for tools useful in the appraisal of potential confined spaces. Assessment of the access stairways and ship's hold may be required.</p>

Employer #	Mailing Address	Classification Unit #	Operating Location
54363	ATTN: PAYROLL 1188 SHERBROOKE W MONTREAL QC H3A 3G2	712035	002

Lab Samples Taken	Direct Readings	Results Presented	Sampling Inspection(s)
N	N	N	

Workers onsite during Inspection	Notice of Project Number
2250	

Inspection Report Delivered To	Employer Representative Present During Inspection	Worker Representative Present During Inspection	Labour Organization & Local
Sylvie Stekelenburg	Sylvie Stekelenburg	Mike Schmidt Shmidt	Unifor Local 2301

WorkSafeBC Officer Conducting Inspection
Earl Houlden

*Inspection Time	*Travel Time
6.00 hrs	2.00 hrs

*The time recorded above reflects the inspection time and travel time associated with this inspection report and includes time spent on pre and post-inspection activities. Additional time may be added for subsequent activity.

Right to Review

Any employer, worker, owner, supplier, union, or a member of a deceased worker's family directly affected may, within 45 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, 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.