



Mayne Island Fire Rescue

WorkSafe B.C.

November 3, 2009

4515 Chatterton Way

Victoria, B.C., V8X 5H2

Attn. Don Macfadgen

Mayne Island Fire Rescue Services has been working on your inspection report dated October 9, 2009 and has put an action plan in place to become compliant with all orders by December 31, 2009.

Some of the orders will be complete before this date however I am relying on contractors to perform the needed guardrails and electrical work and have been told that they cannot start work until the middle of November.

ORDER 1;

The work area has not been arranged to allow the safe movement of people, equipment and materials. This order refers to the following:

- tight space constraints with apparatus projections (ladder on Tender 1, rear dump chute on tender 2) presenting a risk of injury to firefighters. The rear dump chute was approximately 5 feet high and restricted the passageway to 2 feet in width;
- middle Bay between Rapid Attack truck and Engine #1 had vertical wood posts that restricted the walkway width to 2 feet width. See order 1);
- vehicle heater electrical cord for Engine #1, strung at approximately 5 feet high, presents a hazard.

This is in contravention of the Occupational Health and Safety Regulation Section 4.33(1).

A work area must be arranged to allow the safe movement of people, equipment and materials.

ACTION-

We have purchased 2 shipping containers to remove all equipment from the raised mezzanines and the firehall floor. Skull caps are on order for the dump chute and ladder on Tender 1 and ladder on Rapid Attack. Electrical cord for Engine 1 has been replaced and restrung so as not to cause a hazard. We will be compliant on this order by November 30, 2009.



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ORDER 2;

The employer has not ensured that the vehicle area in the firehall is provided with effective local venting of exhaust gases. This order refers to the absence of local exhaust ventilation for fire apparatus. No air monitoring for exhaust constituents (carbon monoxide, nitrous oxide) has been performed.

This is in contravention of the Occupational Health and Safety Regulation Section 31.32.

Unless air monitoring shows that levels of vehicle exhaust gas components are below the exposure limits established under section 5.48, effective local venting for the exhaust gases must be provided in vehicle areas in firehalls.

ACTION-

Due to the tight constraints in the firehall it is almost impossible to install an exhaust system, so what I have come up with is to purchase a gas monitoring system to monitor the gases in the hall and also use hoses, as are used in service stations to direct the exhaust out the doors of the firehall. Once the truck has exited the firehall the hose can be removed. The hose has arrived already and was put into service October 27, 2009. The gas monitor has arrived and is in service. We have been monitoring the gases when the apparatus is leaving and returning to the apparatus bays. As of writing this report there has been zero readings for both gases that are monitored. Compliant as of November 1, 2009.



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ORDER 3;

An area accessible to workers, and which has a raised floor, open-sided floor, mezzanine, gallery, balcony, work platform, ramp, walkway, or runway that is 122 cm (4 ft) or more above the adjacent floor or grade level, does not have guards or guardrails installed. This order refers to the absence of guardrails on mid-level hose tower platform, and in the storage mezzanines in the apparatus bay.

This is in contravention of the Occupational Health and Safety Regulation Section 4.55(a).

An area accessible to workers must have guards or guardrails installed if a raised floor, open-sided floor, mezzanine, gallery, balcony, work platform, ramp, walkway, or runway is 122 cm (4 ft) or more above the adjacent floor or grade level.

ACTION-

Guardrails are to be installed in hose tower and on deck adjacent to kitchen. This work is to start around the middle of November and should take approximately 2 weeks to complete. All of the equipment that is stored on the elevated mezzanines in hose tower and apparatus bays will have been removed and stored in the containers; also "no access" signs are to be installed on all of the elevated mezzanines. The emergency escape ladder will have the plywood removed and reinforced as per recommendation. We are also securing the hotwater tanks and air compressor that are on the elevated mezzanines in the apparatus bays. We will be compliant by December 15, 2009.



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ORDER 4;

Passageways and working space around electrical equipment (circuit panel in apparatus bay) is not kept clear of obstructions, or arranged so as to give authorized persons ready access to all parts requiring attention, and/or is used for storage. This order refers to the storage of material (buckets) under the electrical panels.

This is in contravention of the Occupational Health and Safety Regulation Section 19.7(1). Passageways and working space around electrical equipment must be kept

clear of obstructions, be arranged so as to give authorized persons ready access to all parts requiring attention, and not be used for storage.

Ensure that the space around the electrical panels are kept clear, the breaker panel is covered, a cover plate is placed on the electrical receptacle in the ready room and the electrical receptacle in the hose tower is protected by a ground fault circuit interrupter.

ACTION-

All obstructions have been removed from under the electrical panel and a cover is being made to go over the entire electrical panel but still provide access. A GFI breaker will be installed in the hose tower to protect the electrical receptacle. The cover plate in the ready room has been replaced. We will be compliant by December 15, 2009.

ORDER 5;

Each of the preceding orders is assigned a decision code with the letter "N", indicating that a compliance report is required to be prepared by the employer in accordance with Workers Compensation Act Section 194 (1). The compliance report must specify what will be done to comply with the order and if compliance has not been achieved at the time of the report, a plan of what will be done to comply and when compliance will be achieved. The employer must post a copy of the compliance reports and any follow-up compliance reports at the workplace in the area where the related orders are posted and provide a copy of the reports to the joint health & safety committee or worker health & safety representative, as applicable and if the reports relate to a workplace where the workers are represented by a union, send a copy to the union.



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ORDER 5 cont.

In addition, in accordance with Workers Compensation Act Section 194 (4) (d), the compliance reports must be forwarded to this officer*, on or before November 7th, 2009 (note: if compliance is to be delayed beyond the time-line specified in the original compliance report, this officer must be notified).

*Don MacFadgen

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ACTION -

Order 5 is to complete a compliance reports. Please accept this as the compliance report as per order 5 of this inspection report (2009129920231)

Discussions and recommendations;

Items discussed included:

- developing an Operational Guideline for H1N1 (sample guideline provided);
- the employer indicated that they are in the process of completing the Office of the Fire Commissioner's Fire Department health and safety checklist and audit. Provide a copy of the completed audit to this Officer's attention;
- tight space constraints with apparatus projections (ladder on Tender 1, rear dump chute on tender 2) presenting a risk of injury to firefighters. The rear dump chute was approximately 5 feet high and restricted the passageway to 2 feet in width. Middle Bay between Rapid Attack truck (towards Engine #1 and vertical wood posts had a 2 feet width. See order 1);
- this hall requires apparatus to back in. Ensure that adequate procedures and assistance is provided to minimize the likelihood of inadvertent impact to the building support posts. Ensure high visibility vests are worn by firefighters backing apparatus into bays;
- no vehicle exhaust ventilation was in place and evidence (exhaust on streaks on floor near Rapid Attack truck, settled dust in areas) suggests diesel particulate is not effectively removed.



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No monitoring of vehicle emissions (carbon monoxide, nitrogen dioxide), particularly those associated with turbo charged diesels, has occurred (see order #2);

- unsecured compressed gas cylinders in front driver compartment of Engine #1. Occupational Health and Safety Regulation (OHS5.38.(2)) 'A compressed gas cylinder must be secured to prevent falling or rolling during storage, transportation and use, and where practicable, must be kept in the upright position.';
- electrical issues associated with location of main panel, missing cover plate on electrical panel, storage of buckets underneath electrical panel, missing GFCI circuit in hose tower, missing cover plate in electrical room; (see order # 4)
- guarding of elevated mezzanines, storage areas in hose tower and apparatus bay (see order #3);
- ensure that the exit stairs are not used to store flammable/combustible materials
- electrical issues associated with location of main panel, missing cover plate on electrical panel, storage of buckets underneath electrical panel, missing GFCI circuit in hose tower, missing cover plate in electrical room; (see order # 4)
- guarding of elevated mezzanines, storage areas in hose tower and apparatus bay (see order #3);
- ensure that the exit stairs are not used to store flammable/combustible material;
- ensure that the emergency escape ladder at the front of the buildings plywood cover (on the bottom 4 rungs) is readily removable in the event of an emergency;
- review the arrangement of the outdoor roof area adjacent to the kitchen to ensure that it is adequately guarded and/or a control zone setup;
- concerns related to stability of building in the event of a moderate earthquake. Seismic stability issues are predominately addressed by the BC Building Code and are not in WorksafeBC jurisdiction.

Material Provided to the Employer

Sample H1N1 Guideline provided to the fire chief (Occupational Health and Safety Regulation 6.34 applies).

ACTION-

-I have used the sample H1N1 SOG and have ordered all of the necessary PPE which should arrive by November 15, 2009.



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ACTION cont-

- I will complete the Office of the Fire Commissioners Audit & Inspection checklist and provide you with a copy by December 31, 2009.
- High visibility vest have been placed in strategic locations in the firehall so firefighters directing apparatus to backin are visible to the driver. SOG # 1.06.03 (13)
- Compressed gas cylinders on Engine 1 have been relocated and secured properly.
- All combustable material has been removed from under the exit stairs at the rear of building.
- A copy of the engineering report on the structural stability of the firehall will be provided to you.

This compliance report was presented to the Mayne Island Volunteer Firefighters Association and the Occupational Health & Safety Committee on Novemeber 3, 2009 and was accepted and posted in the firehall for any fire fighters review.

Respectfully submitted,

Jeff Francis

Fire Chief

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