To: Local Coordinators, Bargaining Unit Presidents, Health and Safety Network Leads, and Joint Health and Safety Committee members from the Executive Booklet

From: Diane Parker, Vice-President, Region 1, Occupational Health and Safety Portfolio

Date: January 21, 2009

Re: Liko Model UNO102EE lifts – Action required

C: Board of Directors, District Service Teams, Provincial Services Team

In July, we sent you a memo alerting you to concerns about hazards associated with some ceiling and mobile lifts. The memo stated the following:

Our health and safety networks are reporting that many lifts simply are not being utilized, for reasons ranging from lack of training in how to properly operate them to difficulty using them as they get caught in privacy curtains, etc. Even more disturbing are reports of ceiling and mobile lift failure resulting in patient injury and death and worker injury.

Recently, the Office of the Chief Coroner issued a notice recommending that Liko Model UNO102EE lifts be removed from service in all Ontario hospitals, long-term care facilities and other public/private institutions. The notice (attached) followed the investigation into “the death of an individual who died as a result of a fall from a lift device at Leisureworld Caregiving Centre – O’Connor Gate.”

http://ogov.newswire.ca/ontario/GPOE/2008/11/05/c5400.html?lmatch=&lang= _e.html

Given this latest development, and with a view to preventing problems, we are repeating our request that you raise the issue of proper installation, inspection, training and usage of patient lifts at your Joint Health and Safety Committee (JHSC), highlighting in particular the Liko Lift identified by the Chief Coroner.

Furthermore, if you have the Liko Lift at your facility, please raise this issue urgently with your employer to ensure that, in the interest of patient and worker safety, it is immediately removed from service.

The Ontario Safety Association for Community and Health Care (OSACH) has a planning guide entitled, Implementation of Client Mechanical Lifts, which is available on the health and safety section of ONA’s member website at www.ona.org. Other useful resources include OSACH’s new Handle with Care Program, available for a fee at www.osach.ca, and OSACH’s Mechanical Lift Inspection Checklist and alert from BC (attached).
Your JHSC can ask the employer to acquire the CSA standard (Z10535-03 Hoists for the transfer of disabled persons – Requirements and test methods) and the OSACH Handle with Care Program. CSA standards can also be accessed (for view only) on the health and safety section of the ONA member website.

Once again, we are attaching a draft recommendation for you to tailor and table at your JHSC. Remember to follow the usual three steps:

1. **Caucus** with other worker members to discuss this issue and develop a common position to present to the JHSC as a whole. You are entitled to at least one hour of paid time before the meeting to do so (section 9 (34) O/HSA).

2. **Recommend**, in writing, to the employer that the measures suggested in the attached sample be taken to prevent injury. The employer has 21 days to respond in writing to a written recommendation from the JHSC (section 9 (20) O/HSA).

3. **Call** the Ministry of Labour (MOL) if the committee as a whole will not make the recommendation to the employer, or if the employer response is tardy or deficient. This would constitute an “unresolved health and safety concern” and in accordance with the principles of the Internal Responsibility System, it is entirely appropriate to seek help from the MOL if a concern is unresolved.

Encl.
Sample Daily Mechanical Lift Inspection Checklist

Complete one form per mechanical lift.

Inspections for the Week of:

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<tr>
<th>Type of Lift:</th>
<th>Identification/Serial Number:</th>
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<tr>
<td>Unit/Department Location:</td>
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<tr>
<td><strong>Portable Floor Lift Frame</strong></td>
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<td>• Wheels (castors) in good working order</td>
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<td>• Wheels (castors) firmly attached to base of lift</td>
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<td>• Brakes are operational</td>
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<td>• Nuts and screws are secure</td>
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<td>• Manufacturers instructions are readable</td>
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<td><strong>Ceiling/Wall-mounted Lifts</strong></td>
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<td>• Lift strap (between motor and spreader bar) – no signs of fraying</td>
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<td>• Track – flush against surface (ceiling or wall)</td>
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<td>• Ceiling track end plates/stops are secure</td>
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<td>• No signs of loose hardware</td>
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<td><strong>Operational Inspection (test functioning of equipment)</strong></td>
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<td>• All hand controls (up, down, traverse) functional</td>
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<td>• Return to charge feature, if available, is the operator activated type and is operational</td>
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<td>• Floor lift base width adjusts</td>
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<td>• Floor lift boom moves through full range</td>
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<td>• Ceiling/wall lift – no kinks, twist in the line connecting motor to controls</td>
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All shortcomings must be documented, supervisor informed and equipment tagged and removed from service.

Note: This form should be customized to meet manufacturers’ recommended inspection elements.
Properly install, inspect, and load test overhead patient/resident track lifts

This bulletin briefly describes the causes of an accident involving an overhead patient/resident track-lift system* and actions required by employers, lift suppliers, installers, and workers to prevent a recurrence of such an incident.

*These overhead systems for lifting patients, residents, and other people are sometimes referred to as a ceiling lift, H-gantry, X-Y gantry, total room covering gantry, monorail, or bridge cranes.

Overhead track-lift system accident

Two caregivers and a resident at an extended care facility were injured when an overhead patient/resident track-lift support system failed while being used for the first time with a resident.

The primary cause of the accident was failure to properly install one of the track suspension components supporting the end of the track. When the hoist supporting the resident was moved to a position on the track that was directly under the improperly installed suspension component, the track, hoist, and resident fell to the floor.

Proper installation, inspection, and load testing of the track-lift system prior to putting it into service would have prevented this accident. Such preventative activities are required by regulation and considered part of effective risk management standards.

Overhead track lifts can prevent injuries

Overhead patient/resident track systems are increasingly being used in hospitals, nursing homes, private homes, and group homes. When properly installed, inspected, tested, maintained, and operated, overhead track systems minimize the risk of overexertion injury – the most common type of injury to caregivers.

When installing, inspecting, testing, and using overhead track-lift systems, reference must be made to applicable safety standards, the Workers Compensation Act (the Act) and the Occupational Health and Safety Regulation (OHSR) requirements, including those discussed below.
Safety standards for patient/resident lifts

The Act and OHSR are primarily concerned with the safety of workers as defined under the Act. In general, these devices lift patients and residents, rather than workers. Note also that the safety precautions taken for lifting people are more stringent than the safety precautions for lifting materials. Therefore, compliance with the requirements of the OHSR and the Act regarding the lifting of materials does not necessarily mean that a device is safe for lifting people and may not satisfy effective risk management standards.

There are several standards dealing with lifting devices in general, and patient/resident lifting devices in particular, that should be considered prior to installing a patient/resident lift.

A Canadian and a European standard not referenced by the OHSR, but which is intended for patient/resident lifts, is as follows:

- **CAN/CSA-Z10535, Hoists for the transfer of disabled persons - Requirements and test methods**
- **ISO 10535, Hoists for the transfer of disabled persons - Requirements and test methods**

Note that the load test requirements in these standards exceed the load test requirements of OHSR section 14.54 (as explained in the specific OHSR reference sections below).

Note also that one Canadian standard referenced by OHSR clause 14.2(3)(a) is **CSA B167-96, Safety Standard for Maintenance and Inspection of Overhead Cranes, Gantry Cranes, Monorails, Hoists, and Trolleys**. The "Scope" section of this standard states as follows:

1.1 General
This Standard specifies the minimum requirements for inspection, testing, and maintenance of overhead cranes, monorails, hoists, trolleys, jib cranes, gantry and wall cranes, and other equipment having the same fundamental characteristics. [Italics added.]

This type of standard is not generally sufficient for designing and testing devices used to lift people. The general assumption is that since workers are not supposed to be under lifted loads, the dropping of a load is not as serious as the dropping of a person. Hoists merely used to lift materials generally do not have as many safety features as hoists used to lift people. Therefore a prudent designer of a hoist for lifting people should, in accordance with effective risk management standards, exceed the requirements of this particular CSA standard.
Act requirements for suppliers of overhead track lift systems

Suppliers of lifts are required under section 120 of the Act to ensure that the product:
- Is provided with directions for its safe use;
- Is safe to use when used in accordance with directions provided by the supplier; and
- Complies with Part 3 (Occupational Health and Safety) of the Act and applicable sections of the OHSR.

Other Act and OHSR requirements applicable to overhead track lifts

If you are planning to install, or have already installed, overhead track lifts, the installation must meet the applicable requirements of the OHSR and the Act, in addition to any other applicable requirements (e.g., the local building code).

Pages 3 to 6 include references to several sections of the OHSR regarding such matters as the installation, inspection, and testing of overhead lifts - activities that, when properly conducted, would have prevented the accident described above.

Note that:
- OHSR Part 4 specifies general safety requirements;
- OHSR Part 14 is specific to cranes and hoists (including overhead lifts); and
- OHSR Part 15 specifies requirements for slings, hooks, and spreader bars.

The following information contains summaries of OHSR sections relevant to overhead track-lift safety. Please refer to the OHSR for specific requirements.

Section 4.1 OHSR - Safe premises
Maintain structures, machinery, and equipment in safe condition.

Section 4.3 OHSR - Safe machinery and equipment
- Safely operate machinery and equipment;
- Inspect, test, and maintain the machinery and equipment at the intervals, and by the means, specified by the manufacturer and required standards or by a professional engineer; and
- Identify machinery and equipment that is unsafe for use and ensure it is not put into service until safe to do so.
Sections 4.3(1)(a) and 14.28(2) OHSR - Hold-to-run controls
Systems whereby the hoist automatically returns to charge or some other position, without an operator constantly at the controls, are not safe and do not meet the intent of these OHSR sections.

Section 4.11 OHSR - Startup
Ensure that all safeguards are in place and functioning before lift equipment is put into operation and that no person is exposed to undue risk by putting the equipment into operation.

Section 14.2 OHSR - General requirements
Design, construct, erect, disassemble, inspect, maintain, and operate overhead track lifts as specified by the manufacturer or a professional engineer. Load testing to other criteria or other safety items that are included in the manufacturer's instructions, and that are not specifically required by the OHSR, must also be followed.

Interchangeable components such as slings, spreader bars, and weigh scales must be compatible. Review the manufacturer's instructions for details of component compatibility.

Section 14.4 OHSR - Rated load capacity
The rated load capacity of a crane or hoist must not be exceeded.

Section 14.5 OHSR - Rated load capacity indication
The rated load capacity of an overhead patient/resident track lift system must be permanently indicated (in metric units if made after January 1, 1999) on the superstructure and hoist.

The rated load capacity of a monorail type overhead track-lift system must be permanently marked on the hoist and at 10 m (33 feet) intervals on the monorail beam.

Section 14.11(1) OHSR - Support structure
The rated load capacity of a hoist must not exceed the capacity of the lift support structure that supports the hoist.

Section 14.11(2) OHSR - Support structure and multiple hoists
Selector switches or other effective means must be provided to ensure that the support structure is not overloaded by multiple hoists installed on the same support structure.

Section 14.12 OHSR - Manufacturer's manual
The manufacturer's manual for each overhead track-lift system must be reasonably available where the equipment is used, and must show the approved methods of erection, dismantling, maintenance, and safe operation.

Section 14.13 OHSR - Inspection and maintenance
Each overhead track-lift system must be inspected and maintained such that each component can carry out its original design function with an adequate margin of safety. Any repairs to
load-bearing components must be certified by a professional engineer or the original equipment manufacturer.

**Section 14.19 OHSR - Limit the drop of the trolley**
The original equipment manufacturer or a professional engineer must certify that the trolley and bridge truck frames, while carrying the rated load, will continue to be supported if a wheel or axle fails. In addition, the trolley or bridge truck frame must not fall further than 25 mm (1 inch) if a wheel or axle fails.

**Section 14.20 OHSR - Rail end stops**
End stops must be provided on hoist tracks to prevent the equipment from running off the end of the rail or track.

**Section 14.28 OHSR - Controls**
All controls for an overhead track-lift system must have their function clearly identified and maintained in good condition.

**Section 14.34 OHSR - Qualifications of lift operators**
Lifts must only be operated by a qualified person who has been instructed and authorized to use the equipment.

**Section 14.38 OHSR - Unsafe lift**
The operator of an overhead lift system must not attempt to move a load (e.g., person or test load) if there is any doubt that the load can be handled safely.

**Section 14.42 OHSR - Multiple hoists**
Any plan to install a second hoist on a lift support structure in order to use two hoists to simultaneously lift a person who weighs more than the individual rated load capacity of either hoist must be reviewed by a professional engineer or the lifting device manufacturer. Items such as those listed in OHSR section 14.42 should be considered, as well as the overall strength of individual components.

**Section 14.46 OHSR - Side loading**
The hook or load block of a crane or hoist must be positioned over the load to prevent side loading of the crane when the load is hoisted.

**Section 14.54 OHSR - Load testing**
All components must be load tested according to the requirements of the OHSR. If the manufacturer requires a load test at a different load than is specified by the OHSR, that test must also be performed (as per section 14.2(1) of the OHSR).

Overhead lifting devices generally consist of two main sets of components. The first main set of components is the lift support structure. The lift support structure consists of parts of the lifting device that are attached to or supported by the building structure. The lift support structure generally includes the support track and all other stationary parts that support the
trolley and winch type mechanism. The second major set of components is the hoist. The hoist generally consists of a winch type mechanism and all other parts that connect the winch mechanism to the tracks, including the trolley.

It is critical that proper load testing of new or significantly modified lifting system installations (e.g., including the support structure and hoist) be done prior to using the lifting system with people. Load testing will determine if the lifting system can safely handle the loads imposed on it. Load testing requirements specified in the OHSR are explained below. Refer to the OHSR for specific wording.

14.54(1)(a)
Rated load capacity and proof test load
An important part of testing the installed lifting system, prior to using it to lift persons, is to use the system to lift specified weights of material. Generally, the lifting system is used to lift at least two different weights. The first one is a weight equal to the rated load capacity of the system. The rated load capacity (design load) of the system is the maximum weight that the device will ever lift during normal use. The second weight, for the purposes of this bulletin, will be called a proof test load. The proof test load is a load greater than the rated load capacity of the lifting system.

According to the OHSR, the proof test load must be 125% of the rated load capacity. The manufacturer may require an additional proof test load larger than 125% of the rated load capacity. Standards dealing with the design of patient/resident lifts generally require a proof test load of 150% or more of the rated load capacity.

Written safe work procedures for load testing track-lift systems must be established and followed.

Before being put into service, each hoist must be load tested through its complete range of motion at its rated load capacity and at the proof test load. The load used to proof test and test the rated load capacity of the hoist must be lifted from the lowest point of travel (e.g., the floor) to the highest point of travel. The spreader bar and lifting sling (for persons) do not have to be used during a load test. Load tests are not be conducted using a person for the load. Load testing of the hoist can be done at the point of manufacture or at the point of end-use.

14.54(1)(b)
Safety device testing
Part of the reason for applying a rated load capacity test load to each hoist is to ensure that any safety devices that prevent the hoist from lifting more than its rated load capacity will function when the hoist is put into service. The hoist manufacturer must provide documentation confirming that the appropriate tests have been performed. This would eliminate the need for the hoist to be totally re-tested after being installed at its point of end-use.
If the trolley is an integral part of the hoist, then the trolley must be supported in its normal manner during the load tests performed on the hoist.

14.54(1)(c)
Load testing of the lift support structure
Prior to doing any load testing of the support structure, it must be inspected and deemed safe to use for load testing. The support structure installation must ultimately be able to safely handle its rated load capacity and a proof test load equal to at least 125% of the rated capacity for each hoist on the track. The manufacturer may require a proof test load of greater than 125% of the rated load capacity.

In general, the trolley used for the load tests should be the same one that will be dedicated to that specific permanent lift installation. If a different trolley is used to load test the lift support structure, that trolley must either be the same type of trolley as the regular service trolley or a trolley that causes greater stresses on the lift support structure (e.g., by using a trolley with a shorter wheel base).

The OHSR requires that structural deflections be measured during load testing.

For a monorail, the suspended test load must be moved along the entire length of the track and deflection at mid-span or the end of the cantilever measured and compared to the design deflection limit.

For a bridge crane (e.g., H-shaped ceiling track lift), the suspended test load must be moved to one end of the bridge. The bridge must then be moved along the full length of the supporting (side) rails. The suspended load must then be moved to the other end of the bridge. Once again, the test load must be moved along the full length of the side rails. The test load must also be suspended at the center of the bridge span and the deflection measured.

For cranes consisting of a monorail that pivots, the test load must be moved along the length of the monorail. The test load must then be placed in the position that will maximize the stress on the pivoting mechanism and the monorail pivoted through its complete range of motion.

Equivalent test procedures must be developed for other types of hoists and specialized components or devices such as trolley transfer mechanisms (e.g., turntables, gates, and track splitters).

Note: Only those parts of the runways or tracks that have been successfully load tested may be placed into service.

14.54(1)(d)
Testing of all motions of the installed track lift system
All motions of the overhead track lift systems must be rated as load tested, proof load tested, and tested as otherwise required by the manufacturer before being used to lift patients, residents, or any other person.
Section 14.54(2) OHSR - Records of load tests
A record of all load tests must be kept and include details of the tests, verification of the loads used, and the signature of the person conducting the tests.

Section 15.52 OHSR - Sling identification
Synthetic fibre web slings must be permanently identified with the:

- Manufacturer's name or mark;
- Manufacturer's code or stock number;
- Working load limits for the types of hitches permitted; and
- Type of synthetic web material.

Section 15.53 OHSR - Temperature restrictions for fibre web slings
Fibre web slings must not be exposed to a temperature above 82 degrees Celsius (180 degrees Fahrenheit) unless otherwise permitted by the manufacturer.

Section 15.54 OHSR - Synthetic web slings rejection criteria
A synthetic web sling must be removed from service when any of the circumstances specified in OHSR section 15.54 occurs (e.g., the length of an edge cut exceeds the web thickness).

Section 15.58 OHSR - Working load limit of spreader bars
Spreader bars and other specialized below-the-hook lifting devices must have their working load limit certified by a professional engineer or established by the lifting device manufacturer.

Section 15.59 OHSR - Identification of spreader bars
A nameplate or other permanent marking must be on a spreader bar or other specialized below-the-hook lifting devices and display:

- The manufacturer's name and address;
- Serial number; and
- Working load limit.

A carry bar that is an integral part of the load line, and cannot readily be removed by the end user, is not a spreader bar. Since it is not a spreader bar, the spreader bar requirements of OHSR 15.59 do not apply to a carry bar.

WorkSafeBC Prevention Information Line: (604) 276-3100 or toll-free 1-888-621-SAFE (7233) or visit our website at http://www.worksafebc.com/ WS 02-02
Sample – Lifting Hazards and Recommendations to Employer

This is only a sample template. Written recommendations can be sent via e-mail or in a letter or any form. Regardless of the form of the recommendation, it is important to note the date sent, the hazard identified and the recommendation that the JHSC is proposing. If there is more than one recommendation, each should be numbered and the written recommendations should be signed by the worker and employer co-chairs. If you have a similar issue in your workplace, you can use this sample and include all or some of the recommendations depending on the needs of your workers and your workplace.

Date: ___________________________ Hand-delivered to: ___________________________

(Insert name of Employer)  
(Insert address of Employer)

Pursuant to Section 9 (18) of the Occupational Health and Safety Act, (OHSA) we are responsible as a Joint Health and Safety Committee to “identify situations that may be a source of danger or hazard to workers and to make recommendations to the employer and the workers for the improvement of their health and safety, and recommend to the employer and the workers the establishment, maintenance and monitoring of programs, measures and procedures respecting the health and safety of workers, and the trade union representing the workers.”

As such, we have identified the following sources of danger or hazard at [insert address of employer] and provide the following recommendations:

**Identified Concerns and their Associated Recommendations**

<table>
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<tr>
<th>Concern</th>
<th>Recommendations</th>
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| Proper installation, maintenance, training and use of mechanical patient-lifting devices. | The Joint Health and Safety Committee recommends that the employer forthwith:

1. In consultation with the JHSC

   - Consider:
     - OSACH’s A Planning Guide for the Implementation of Client Mechanical Lifts
     - OSACH’s Handle with Care Program
     - OSACH’s Daily Mechanical Lift Inspection Checklist (attached)
     - CSA Standard Z10535-03 Hoists for the transfer of disabled persons – Requirements and test methods
     - BC hazard alert and regulations
     - section 51 of the Ontario Regulation for Industrial Establishments |
Pursuant to S. 9 (20), an employer who receives written recommendations from a committee shall respond in writing within twenty-one days. Therefore we look forward to receiving your written response to our recommendations within 21 days, i.e. by [enter date].

We anticipate that your written response will include all information pursuant to the OHSA Section 9 (21), which states: “A response of a constructor or employer under subsection (20) shall contain a timetable for implementing the recommendations the constructor or employer agrees with and give reasons why the constructor or employer disagrees with any recommendations that the constructor or employer does not accept.”

__________________________
Worker Co-Chair, Joint Health and Safety Committee

__________________________
Employer Co-Chair, Joint Health and Safety Committee

C: Post for the workers
   Copy to JHSC
   Local _____
SAFETY MESSAGE FROM THE OFFICE OF THE CHIEF CORONER

REMOVAL OF LIKO LIFT DEVICES

TORONTO — Dr. A. E. Lauwers, Deputy Chief Coroner of Investigations, today announced that the investigation launched in May 2008 into the death of an individual who died as a result of a fall from a lift device at Leisureworld Caregiving Centre – O’Connor Gate, has concluded.

The expert engineer was unable to determine the cause of the failure of the Liko Model UNO102EE that resulted in the death. During the investigation, it became apparent that other Liko Model lifts failed at another Leisureworld site. It was the opinion of the engineer that the Leisureworld staff were utilizing the lift appropriately in the failure which occurred at O’Connor Gate. In keeping with its public safety mandate, the Office of the Chief Coroner is strongly recommending that all Ontario hospitals, long-term care facilities and other public/private institutions that employ this device, take them out of service. They should not be placed back into service until the manufacturer, Liko, determines the cause of the failures and can advise on corrective measures.

There are 224 Liko Model UNO102EE lifts in use in Ontario.

The Office of the Chief Coroner has informed Liko and Health Canada of the findings of the investigation.

- 30 -

Contact:
Dr. Jim Edwards
Regional Supervising Coroner for Central Region
Toronto East Office
Ministry of Community Safety and Correctional Services
416-314-4000

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