

Safety Lines

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ELEVATING WORK PLATFORMS – COMPETENT PERSON

The purpose of this article is to provide an update on the inspection certification requirements for elevating work platforms (EWP), in particular how the development of a competent person definition may affect operations in 2006. None of the safety requirements for elevating work platforms (cherry pickers, booms, scissor lifts, etc.) have changed, but the requirements for certification of their compliance have been clarified.

The *Approved Code of Practice for Power-Operated Elevating Work Platforms*, published in 1995, remains the definitive best practice document. This code specifies six-monthly inspections. It also requires major ten-yearly inspections, as do the standards the code of practice references (e.g. AS2550.10). The Department of Labour, which administers the Health and Safety in Employment Act 1992, considers compliance with the code of practice to be evidence of compliance with the act.

For many years EWP owners, operators, and maintainers have been satisfied with the code's requirements. However, there has been some concern that its lack of definition of 'competent person' for EWP inspection and maintenance may have compromised safe outcomes and confidence for users and their employers.

In 2004, with the support of the Accident Compensation Corporation and the Department of Labour, the EWP industry approached the Certification Board for Inspection Personnel (CBIP) for assistance in developing a competent person definition applicable to the inspection and maintenance of EWPs. This resulted in the completion, in May 2005, of the *Standard of Proficiency for the Certification of Elevating Work Platforms Assessors*. The first examinations will be held in October 2005 and the second round in April 2006.

By January 2006 CBIP certified inspectors will begin issuing safety inspection certificates for EWPs and by June 2006 it should be possible for all inspection certificates to be issued by such inspectors.

Although it is not mandatory under current HSE legislation for those carrying out EWP inspections to be CBIP-certified, the Department of Labour, after 2006, will show a strong preference for EWP inspection certificates issued by CBIP-certified inspectors. If an EWP does not have such a certificate, the controller may be required to demonstrate further detailed evidence of compliance.

A number of major EWP users have announced that, as soon as the certificates become

available, their intention is to allow onto their sites only those having certificates issued by CBIP-certified inspectors. It is likely that some head contracts and insurers will also require that EWPs be so certified.

REFERENCES

Standard of Proficiency for the Certification of Elevating Work Platforms Assessors - Certification Board for Inspection Personnel

<http://www.cbip.org.nz/standards.htm>

Background to this issue and details of a seminar for prospective inspectors - Elevating Work Platform Association of New Zealand

<http://www.ewpa.org.nz>

Approved Code of Practice for Power-Operated Elevating Work Platforms - Department of Labour

<http://www.osh.govt.nz/order/catalogue/195.shtml>

DISCLAIMER

While every care is taken in the provision of information in *Safety Lines* it is the reader's responsibility to confirm the accuracy of such information against relevant current legislation and approved codes of practice prior to placing reliance on it. The earlier the issue of *Safety Lines*, the more obviously important this becomes, as legislation and approved codes of practice may change over time.

Nothing in any issue of *Safety Lines* that contradicts any current legislation or approved code of practice may be relied upon. The editor would appreciate being notified of any instance of such contradiction in an issue of *Safety Lines*, which was published after the publication of the current legislation or approved code of practice being contradicted.



HERA COURSES AND SEMINARS

HERA Training Centre is offering the following courses and seminars during the remainder of 2005:

Activity	Dates
Interpretation of weld radiographs	11-12 Oct
Inspection and test plans (ITPs) for inspectors	20 Oct
Management appreciation in non-destructive testing and weld QC	26 Oct
Quality welding and fabrication using ISO 3834	27 Oct
Pressure equipment inspection	21-25 Nov
Welding supervisor course	
Module 3	31 Oct-11 Nov
Module 4	5-9 Dec
Welding inspection	28 Nov-2 Dec

The venue for the above courses and seminars is:

HERA House
17-19 Gladding Place
MANUKAU CITY (South Auckland)

Note: Enrolment closes 7 days before the start of each course.

For further details contact:

HERA Training Centre
P0 Box 76134 Manukau City
Phone: (09) 262 2885 Fax: (09) 262 2856
Email: admin@hera.org.nz



ENGINEERING SAFETY STAFF CONTACT DETAILS

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GENERIC DOL BRAND

The labour market is critical to New Zealand's continued growth. As the government's principal labour market agency, the Department of Labour works to improve the performance of the labour market and through that the strength of the economy and the quality of people's lives.

Achieving this requires addressing a number of interrelated and complex issues within the labour market. To do this, the Department delivers an integrated range of labour market services focussed on the key priorities of:

- maintaining and improving labour market participation
- more appropriate skills and better use of existing skills
- significant increases in labour productivity
- improving the quality of workplaces
- improving the quality of labour market information.

Everything the Department does, including immigration, health and safety, employment relations and more, is about lifting workplace productivity and improving working lives.

About 1100 workers die every year from work related disease and injury. About 700 working Kiwis are harmed badly enough to seek medical help every day. The estimated cost of death, injury and illness caused by occupational disease and injury is between \$4.3 billion and \$8.7 billion a year.

Prevention, through keeping workplaces and workers safe, can reduce the negative impact of work-related diseases and injuries and increase workplace productivity.

The Department takes a lead on workplace health and safety through its Health and Safety Inspectors, working with employers and employees to achieve our common goal of reducing work-related disease and injury and achieving productive work and high-quality working lives.



CE MARKING OF PRESSURE EQUIPMENT

Engineering Safety has received a number of queries about the status of CE marked pressure equipment of overseas manufacture, and as a result the following policy outlined in this article has been established.

In general, the suppliers' duties under regulation 20(2) of the Health and Safety in Employment (Pressure Equipment, Cranes, and Passenger Ropeways) Regulations 1999 are deemed to be met, and CE marked pressure equipment of overseas manufacture may be certified for service in New Zealand, provided the equipment:

1. Complies with European Commission document *Simple Pressure Vessel Directive (87/404/EEC)* or, *Pressure Equipment Directive (97/23/EC)*;
2. Falls below the range of equipment requiring, in accordance with the appropriate approved code of practice, design verification to include seismic loadings; and
3. Is CE marked and accompanied by manufacturing documentation (in English), as follows:

Under *Pressure Equipment Directive 97/23/EC*, the CE marking and EC declaration of conformity are to meet the requirements of Article 5.

Under *Simple Pressure Vessel Directive (87/404/EEC)*, CE marking is to meet the requirements of Article 12, and the documentation is to comprise a copy each of the 'EC verification certificate' and the 'EC declaration of conformity'.

CE marked pressure equipment, which requires design verification because of seismic considerations, must be design verified by a recognised inspection body and be accompanied by a certificate of design verification.

In summary, CE marking, supported by relevant manufacturing documentation, may be accepted as indicating that equipment has undergone acceptable fabrication inspection during manufacture. Equipment which is not accompanied by the appropriate documentation is not acceptable.



BOILER ACOP CLARIFICATION - APPENDIX D

Appendix D of the *Approved Code of Practice for the Design, Safe Operation, Maintenance and Servicing of Boilers* provides guidelines for the design verification of boiler control systems (BCS). Recently some clarification was sought regarding the services of specialists and the working of sections D2, D3, and D4 of the appendix. The purpose of this article is to share these clarifications more widely.

SPECIALISTS

It is recognised that an inspection body may lack some element of technical expertise needed to verify a particular design, and accepted that it may be required to call upon and rely on specialist assistance.

SECTIONS D2, D3, AND D4

D2 (Documentation and design statement) and D3 (The use of boiler safety controls not covered by an 'applicable standard') primarily outline the information to be provided by the manufacturer to the inspection body, to enable the inspection body to carry out the design verification of the BCS as per D4 (Design verification of boiler safety controls). It is important that the inspection body is satisfied with the quality of the information provided - i.e. technical data should be comprehensive and from the appropriate source, and statements unambiguous and in accordance with the requirements of the code. It may take some communication between the inspection body and manufacturer to reach a satisfactory outcome. It is particularly important that information required to come from the controls manufacturer does in fact do so.

The provision of D2(a), basically a detailed schedule of controls, D2(b), a functional description of the BCS, and D3 (if applicable) enable the inspection body to verify the controls in accordance with D4(a), which covers completeness of controls, and D4(b), which is concerned with the suitability of the controls.

D2(c), which is a statement about the failure to safety of the controls as designed and installed, enables the inspection body to verify the functionality of the controls as a system in accordance with the aim of D4(c) - i.e. verifying the appropriateness and logic of the system as a whole.

In carrying out the verification, the inspection body may rely upon the statements provided to meet the requirements of D2(c) and D2(d) if satisfied that they are in accordance with those clauses. It is accepted that the efficacy of the overall verification will be dependent upon the fulfillment by the manufacturer of the statements in D2(c) and D2(d) and the adherence of the design, construction and installation to the information provided in D2(a) and D2(b).

It is required of the design verification that, subject to provisions of the previous paragraph, it provides assurance about the basic competence of the design from a safety perspective.



TELEHANDLERS

The telehandler is a relatively new piece of equipment now on the market. In essence it is a moving base, such as a tractor, which can be fitted with a wide variety of attachments such as forks, hooks, and work platforms.

With forks attached the telehandler becomes a forklift, with a hook it becomes a crane, and with a work platform it becomes an elevating work platform. In each of these cases there is an applicable approved code of practice. In the case of cranes, there is a separate part in the crane code, Part 12: Tractor cranes, which covers operation, maintenance, and inspection.

Owners and operators need to be aware of the code(s) of practice, relevant to their telehandler, depending on the attachments to be fitted. Some codes of interest are:

- *Approved Code of Practice for Training Operators and Instructors of Powered Industrial Trucks (Forklifts)*
- *Approved Code of Practice for Cranes*
- *Approved Code of Practice for Power-Operated Elevating Work Platforms*



RECOGNITION OF DOCUMENTS

The following notice appeared in the Gazette on 22nd September 2005:

'Notice Of Recognition Of Documents Under The Health And Safety In Employment (Pressure Equipment, Cranes, And Passenger Ropeways) Regulations 1999

Pursuant to Regulation 17(1) of the Health and Safety in Employment (Pressure Equipment, Cranes, and Passenger Ropeways) Regulations 1999, I, Mike Cosman, in exercise of those powers delegated to me by the Secretary of Labour, hereby give notice of recognition of the following documents, subject to those limits and conditions stated below immediately under their respective titles:

CAN/CSA-Z98-01 Passenger Ropeways

Limits and conditions:

1. The recognition of this Canadian National Standard includes all current Supplements and Updates.
2. Reliance on this recognition is dependent on suitable measures being taken in accordance with the *Approved Code of Practice for Passenger Ropeways in New Zealand*, or other recognised document, in relation to design verification for seismic conditions.

97/23/EC Pressure Equipment Directive

Limits and conditions:

1. The recognition of this European Directive applies to its current form and includes all annexes.
2. For reliance on this document, the affected equipment must:
 - a. Either fall below the range of equipment requiring, in accordance with the appropriate approved code of

practice, design verification to include seismic loadings, or, be design verified by a recognised inspection body and be accompanied by a certificate of design verification; and

- b. Be CE marked and accompanied by the appropriate documentation in English, both in accordance with the directive.

87/404/EEC Simple Pressure Vessels Directive

Limits and conditions:

1. The recognition of this European Directive applies to its current form and includes all annexes.
2. For reliance on this document, the affected equipment must:
 - a. Either fall below the range of equipment requiring, in accordance with the *Approved Code of Practice for Pressure Equipment (Excluding Boilers)*, design verification to include seismic loadings, or, be design verified by a recognised inspection body and be accompanied by a certificate of design verification; and
 - b. Be CE marked and accompanied by the appropriate documentation in English, both in accordance with the directive.

Dated at Wellington this 13th day of September 2005.

Mike Cosman
Manager National Operations
Workplace - Professional and Specialist Services'

Note: Gazette notices back to 2000 can be viewed on-line at:

www.gazette.govt.nz

by selecting 'New Zealand Gazette On-Line', then 'Departmental Notices', and looking under 'Labour'.



COLD WATER PRESSURE VESSELS AND PIPEWORK - EXEMPTION

The following notice appeared in the Gazette on 25th August 2005:

'Notice of Exemption for Equipment from the Health and Safety in Employment (Pressure Equipment, Cranes, And Passenger Ropeways) Regulations 1999

Pursuant to Section 6 of the Health and Safety in Employment (Pressure Equipment, Cranes, and Passenger Ropeways) Regulations 1999, I, Mike Cosman, in exercise of those powers delegated to me by the Secretary of Labour, hereby give notice of exemption from these regulations in their entirety of pressure vessels and pressure piping used solely with water whose temperature, at all times, exceeds 0°C and does not exceed 65°C.

Dated at Wellington this 25th day of August 2005.

Mike Cosman
Manager National Operations
Workplace - Professional and Specialist
Services'

Note: Gazette notices back to 2000 can be viewed on-line at:

www.gazette.govt.nz

by selecting 'New Zealand Gazette On-Line', then 'Departmental Notices', and looking under 'Labour'.



ANNOUNCEMENTS

The following organisation has been recognised under the PECPR Regulations as an Inspection Body for fabrication inspection of pressure equipment:

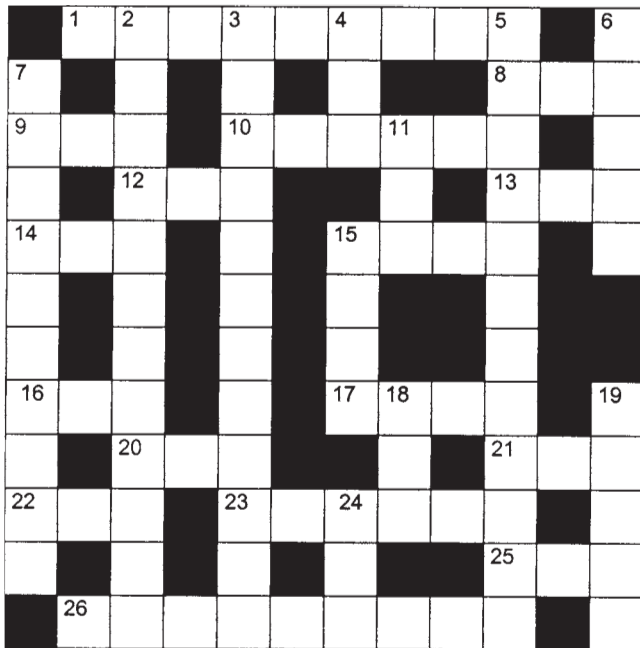
**Technical Standards and Safety Authority
Boilers and Pressure Vessels Safety Section
3300 Bloor Street West, 14th Floor, Centre Tower
Toronto, Ontario M8X 2X4
Canada**

A full list of recognised inspection bodies and qualification issuing agencies along with known contact details can be viewed at the Engineering Safety Web site, which can be viewed at:

www.osh.dol.govt.nz/services/eng-safety/index.shtml



PUZZLE PLACE



ANSWERS TO SAFETY LINES ISSUE 66 CROSSWORD

Across

- 1 Zapped
- 5 Cop
- 8 NDE
- 9 Calicoes
- 11 Up
- 12 Tat
- 14 Reed
- 17 Hod
- 18 Bar
- 19 Foil
- 20 Aid
- 22 No
- 23 OSH
- 25 Reformed
- 29 Stooze
- 30 Tar

Down

- 2 Ate
- 3 PECPR
- 4 DoL
- 5 CIC
- 6 Pie
- 7 Unit
- 10 Sad
- 13 Tear
- 15 Ergo
- 16 Dull
- 17 HERA
- 18 Boom
- 19 Forgo
- 21 Dud
- 24 Hot
- 26 Foe
- 27 Rot
- 28 Err

Answers include abbreviations and acronyms.

ACROSS

- 1 Obscure
- 8 Remove
- 9 Chloro-fluorocarbon
- 10 Title of French-speaking woman
- 12 New Zealand parrot
- 13 Container
- 14 Solemn promise
- 15 Air hole
- 16 Worshipped being
- 17 Lubricating powder
- 20 Body of water
- 21 Consumed
- 22 Edge
- 23 Eight gallons
- 25 Share
- 26 List of goods

DOWN

- 2 Uncouth people
- 3 Hard to control
- 4 Computer-aided design
- 5 By electrical means
- 6 Engineering institution
- 7 Collectors of rubbish; feeders on refuse
- 11 Beer
- 15 Electrical unit
- 18 Tree
- 19 Raises temperature
- 24 Drunkard

Answers can be obtained from:

robin.bain@dol.govt.nz

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