



Safety Lines

ISSN 1171-9354

ENGINEERING SAFETY NEWSLETTER, DEPARTMENT OF LABOUR

No. 66, June 2005

Effective Supervision

Regulation 36(2) of the PECPR Regulations states that:

'Nothing in this regulation prevents a controller or inspection body training a person to become the holder of a certificate of competence from allowing that person to carry out a specified activity, so long as the person carries out the specified activity under the effective supervision of the holder of a relevant certificate of competence.' The term 'effective supervision' is not defined.

Also reliant on the definition of effective supervision is an exemption from the regulations (see 'Exemption — Trainee Equipment Inspectors' in *Safety Lines* No. 65), which enables inspection bodies (subject to Department of Labour approval) to make greater use of trainee inspectors.

There are practical benefits to the inspection body from ensuring that effective supervision is practiced and these include:

- Risk management — safety
- Utilisation of resources — profitability
- Client satisfaction — market security
- Personnel development — staff job satisfaction.

From a Department of Labour perspective the main practical benefits are:

- Safety — the outcome of a trainee inspection should be as safe as if the inspection was performed by an equipment inspector
- Training — the attainment of sufficient skills and knowledge by the trainee to provide the inspection pool with a competent future equipment inspector

For consistency of application of the regulation and exemption, in relation to inspection body activities, and to provide inspection bodies with some guidance, it is necessary to make known the applied definition and policy for effective supervision. Recently International Accreditation New Zealand (IANZ) and the Department of Labour, after external consultation, agreed the form that this should take, and the resulting document, entitled 'Effective Supervision', can be viewed at, and downloaded from, the following websites:

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

www.ianz.govt.nz

The document provides for flexibility in the way supervision may vary in intensity dependent on trainee progress and scope of activities. It will have the following uses:

- During an IANZ audit it will provide the auditors with a reference for effective supervision.
- It will form the partial basis (relevant to effective supervision) of the Department of Labour assessment of inspection body applications to operate under the exemption of 1st February 2005, which pertains to the inspection activities of trainees.
- Although not intended as a procedure template, it may be used to influence the introduction or modification of inspection body procedures on effective supervision.

It is important to note that this document is not a new requirement but a clarification of the expectations of the Department of Labour and IANZ in relation to effective supervision, and as such it will be applied with immediate effect. It will be of importance to all inspection bodies with trainees and those that intend to operate under the exemption. Inspection bodies, which do not currently have trainees and do not intend to make use of the exemption, will be encouraged to adapt to the principles of the document to an extent appropriate to their future plans.

HERA Courses and Seminars

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

Activity	Dates
Surface methods	22 - 26 August
Welding Supervisor Course Module 2	22 August - 2 September
Module 3	31 October - 4 November
Module 4	5 - 9 December
Radiographic theory and Interpretation of weld radiographs	5 - 9 September
Welding inspection	19 - 23 September 28 November - 2 December
Management appreciation in non-destructive testing and weld QC	26 October

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 start of 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

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.

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Exciting News from CBIP

There have been a number of positive changes to the CBIP Personnel Certification Scheme. Their objective is to gain the benefits available from the prevalent worldwide standardisations and rationalisations combined with progressive moves towards mutual recognition of similar quality certification schemes. The implementation of these changes, which is continuing, commenced in April 2005.

International trends motivated CBIP to seek amalgamation of its operations with organisations already recognised by overseas certificate issuing authorities, and after over twenty years' association with HERA, CBIP has changed the service provider.

A new contract has been issued to the Australian Institute for Non-Destructive Testing (AINDT) in conjunction with the New Zealand Non Destructive Testing Association (NZNDTA) for provision of examination services for equipment, welding, coatings and NDT inspectors. The contract is being introduced on 1st July 2005 along with a completely new constitution. The constitution will make provision for participation of certificate holders, at board level, which is intended to increase transparency of the CBIP scheme, thereby improving accountability. HERA, which provided CBIP administration from the beginning, will continue to have ongoing association through board membership.

This is at a time when international certifications and accreditations are achieving greater universal recognition and importance in providing exporters and inspectors with flexibility and credibility. CBIP has, in conjunction with the regulator, the Department of Labour, reconfirmed and restated the requirements for examination at the ten year recertification period for all certification, thus providing a smooth pathway and transition to international accreditations and quality assurances.

The examination and certifications will meet the technical requirements of EN 45013 and fully meet the requirements of ISO 9712. Full approval of the scheme to ISO 17024 was achieved after audit by JAS-ANZ, and the process has been extended to cover limited scope inspections in accordance with ISO 20807.

The advantages of the new contract are substantial, but one of the principal gains is that

inspectors in the NDT disciplines will immediately be able to obtain international recognition of their certifications at renewal and/or re-certification.

The other main beneficiaries are the manufacturers who supply the export markets, and government departments, but a quality spin-off into the home market activities is obvious. Therefore to generalise, positive improvements can be expected for the general public, and all of the New Zealand manufacturing/fabrication and operational sectors including the equipment inspection industry.

AINDT is a signatory to a multilateral recognition agreement with the European Federation of NDT for recognition of persons certificated by Signatory Certification Schemes. Additionally AINDT has a memorandum of understanding with the British Institute of NDT (BINDT) to provide approval to AS3998/ISO9712 certificated persons to undertake NDT as required by the European Pressure equipment Directive 97/23/EC for permanent joints on pressure equipment in the classes III and IV. BINDT is a Recognised Third Party Organisation (RTPO), and is the issuing authority for these approvals.

It is intended that when international accreditation standards for equipment and welding inspector certifications become available, CBIP in partnership with AINDT will be in a position to apply for recognition and accreditation in these areas on account of the systems in place and experience gained. This will result in a similar status internationally for the equipment and welding inspectors. The intention is for the scheme to be expanded as the need arises.

There are economic advantages also to be obtained for members of NZNDTA and contributing members of CBIP, who will be able to apply for reduced examination fees.

The success of expanding the scheme and providing the opportunity for certificate holders to become more involved is dependent upon good communications. We have recognised that improvement of communication is essential and to assist us in this endeavour we request that interested persons forward name and email address to both of the addresses given below. Please note that, in future, notification of the CBIP AGM meetings and of the expiry dates of certifications will be by email.

NDTA@extra.co.nz

jmstark@extra.co.nz

Truck Loader Crane Fatal Accident

In Australia, in March this year, a truck loader crane operator was fatally crushed between the control panel and the crane boom.

This accident highlights the necessity to stand clear of the area of the crane's operation.

The Power Crane Association's *Crane Safety Manual* covers the matter well with recommendations about the danger zone when you are operating these cranes, and includes:

- The path of the crane's components;
- The path of the load;
- The area below the suspended load; and
- The potential crush area e.g. between the vehicle and the load.

This is a reminder to all operators of this type of crane. Care must be taken to keep clear of the load and its movements. Apart from setting up the crane, operators must also have regard to their own personal set up so they are not in any of the danger zones.

A further reminder is that all the controls must be clearly marked with the direction of operation and where controls have a mirrored layout, from one side of the vehicle to the other, care must be taken to operate the controls as marked, which is not necessarily in the same order as at the other side of the vehicle.

Relief Valve Inspection and Testing

Pressure relief valves are covered by Appendix E of the *Approved Code of Practice for Pressure Equipment (Excluding Boilers)*.

AS/NZS 3788, the standard referred to in the code appendix for in-service inspection of pressure relief devices, requires relief devices to be visually inspected at least annually by a competent person. Specific qualifications for competent persons are not detailed in either the approved code of practice or AS/NZS 3788 but the code defines a competent person as "— a person who has acquired through training,

qualifications or experience or, a combination of these, the knowledge and skills enabling that person to perform the task required." Controllers must ensure that persons are competent.

Any relief valve(s) on pressure equipment with an inspection period greater than twelve months must be inspected and tested at periods corresponding to the internal inspection period for the equipment, or every five years, whichever is the lesser. This inspection and testing must be performed by an inspection body or an accredited laboratory.

Where a certificate of inspection is issued for pressure equipment with an internal inspection period greater than twelve months, the equipment must be managed in accordance with a documented operating and maintenance system, or an ISO certified quality management system.

In considering the issue of a certificate for pressure equipment with an internal inspection period greater than twelve months, the inspection body must be satisfied that the controller's management systems, including requirements for competent persons and inspection procedures, are appropriate for the equipment concerned.

Announcements

The following New Zealand organisation has been recognised as an Inspection Body under the PECPR Regulations:

Inspec Ltd
8 Maori Hut Road
Orewa
Auckland

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

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

Design Verification - Clarifications

The following clarifications resulted from recent enquiries and are presented here for a wider audience.

Pressure equipment not requiring a certificate of inspection

Equipment covered by schedule B, class A, of the *Approved Code of Practice for Pressure Equipment (Excluding Boilers)* requires a certificate of design verification, unless it is:

1. Of hazard level E as per AS 4343;
2. Excluded from the PECPR Regulations under schedule 2; or

3. The subject of a gazetted exemption under regulation 6 of the PECPR Regulations.

Certificate of competence

Design verifiers must hold a relevant IPENZ certificate of competence to carry out design verification of pressure equipment (including pressure piping) of all hazard levels other than E. Below, an alternate representation is provided of table A in the pressure equipment code of practice, which may help to make this clear. (For completeness the table also covers fabrication inspection.)

Hazard level of equipment to AS 4343	Company has QMS? (Note 1)	Need to use Inspection Body?	
		For Design Verification (Notes 2 & 3)	For Fabrication Inspection (Notes 2 & 3)
A	Yes	Yes	Yes
	No	Yes	Yes
B	Yes	Yes	No
	No	Yes	Yes
C	Yes	No (note 4)	No
	No	Yes	Yes
D	Yes	No	No
	No	Yes	No
E	Yes	No	No
	No	No	No

Notes:

1. 'QMS' means an AS/NZS ISO 9001: 2000-certified quality management system.
2. 'Yes' indicates that design verification/fabrication inspection by an inspection body is required.
3. 'No' indicates that design verification/fabrication inspection may be performed by a competent person. Where a QMS is required as the alternative to engagement of an inspection body, then this person must hold a relevant IPENZ or CBIP certificate of competence. This provision does not apply to the design verification of equipment of hazard level E, or the fabrication inspection of equipment of hazard levels D and E.
4. 'Yes' for transportable pressure vessels.

Puzzle Place



Answers include abbreviations and acronyms.

ACROSS

- 1 Quickly erased (computing)
- 5 Robber chaser
- 8 Examination without damage
- 9 Cotton cloths
- 11 Running and available for use (computing)
- 12 Rubbish
- 14 Stemmed marsh plant
- 17 Bricklayer's mechanical handling device
- 18 Rod
- 19 Frustrate
- 20 Help
- 22 Not any
- 23 Where Engineering Safety used to be
- 25 Improved
- 29 Butt or foil
- 30 - and feather

DOWN

- 2 Consumed
- 3 Regulations administered by Engineering Safety
- 4 Where Engineering Safety always was
- 5 Industry body - chemicals
- 6 Baked dish
- 7 A single and complete thing
- 10 Melancholic
- 13 Rip
- 15 Therefore (L.)
- 16 Boring
- 17 Engineering association
- 18 Deep resonant sound
- 19 Abstain from
- 21 Ineffectual thing
- 24 Very warm
- 26 Enemy
- 27 Decay
- 28 Do wrong

Answers can be obtained by email from:

robin.bain@dol.govt.nz

Answers to *Safety Lines* Issue 65 Crossword

Across

- 1 Cohere
- 4 Tick
- 8 Radii
- 9 Kea
- 11 Date
- 13 Ski
- 14 Fore
- 16 Lop
- 17 Ohm's
- 20 Rod
- 21 Acme
- 23 A.K.A.
- 24 Daraf
- 25 Max.
- 27 Breeze
- 28 Pool

Down

- 2 Here
- 3 Rodeo
- 5 Cue
- 6 Bedspreads
- 7 Rise
- 9 Kilogram
- 10 Appendix
- 12 Theism
- 14 FIFO
- 15 Roam
- 18 Hertz
- 19 Safe
- 22 Edge
- 26 Ado

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