



AUSTRALASIAN INSTITUTE OF DANGEROUS GOODS CONSULTANTS

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The Launch

"the need for such an institute would receive support in principle from the WorkCover Authority"

STORE-SAFE

This issue of the AIDGC Newsletter is sponsored by Store-Safe.

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Peter Dunphy, Manager, Regulation Development and Implementation (pictured right), launches the Australasian Institute of Dangerous Goods Consultants Inc. at a packed seminar attended by a large gathering of industrial consultants, representatives of major chemical suppliers and a host of special guests from the WorkCover Authority, Chemical Safety Unit.

Peter Dunphy outlined the need for such an institute which would receive support in principle from the WorkCover Authority.



Mr Peter Dunphy at the launch of the AIDGC.

with advice on dangerous goods storage and handling.

The need for the Institute arose from the significant changes that are occurring as a result of the finalising of the National Standard NOHSC: 1015 (2002) Storage and Handling of Workplace Dangerous Goods.

The WorkCover NSW accredited dangerous goods consultants have provided the community with a most useful technical resource and a working group of dangerous goods consultants foresee advantages in enabling the community to have access to accredited professionals through the auspices of an Institute. ■



Mr Graham Goodfellow at the launch of the AIDGC. Graham is Chair of the provisional Board.

Graham Goodfellow (pictured above), opening the seminar welcomed the special guests from the WorkCover Authority who included Peter Dunphy, Phil Butt, Jurgen Strauch and Terry McKay. Graham outlined the importance of establishing an Institute to aid regulatory authorities, local councils, industry and the general community



The AIDGC panel consists of senior WorkCover staff and members of the provisional Board.

Our Aims

The Australasian Institute of Dangerous Goods Consultants Inc. has the following aims:

1. To provide a professional body to represent the membership of Dangerous Goods consultants.
2. To establish an incorporated body to set standards of regulation for the conduct of members, in the form of a Code of Ethics and a Code of Practice to which membership compliance is required.
3. To provide a system of ensuring, so far as is practicable, the competence of Dangerous Goods Consultants through examination and assessment of member consultants – this competence being in both the application of prescriptive standards and in risk management based methodology.
4. To provide a focus for Dangerous Goods Consultants throughout Australasia to contribute to the development and review of Australian and joint Australian/New Zealand standards and codes of practice, and to co-ordinate comment on proposed regulations.
5. To provide and promote an ongoing program of professional development for member consultants (including, but not limited to specialised training forums and publications).
6. To benefit the community as a whole by providing information on how they may access a pool of specialised knowledge on dangerous goods and other related matters.

Our Objectives

The objectives of the Australasian Institute of Dangerous Goods Inc are:

- To ensure an optimum level of expertise as a condition of membership without accepting any liability for member services.
- To offer membership to any consultants who can demonstrate adequate knowledge and experience of the relevant legislation and of the Australian/New Zealand Standards and who agree to be bound by the conditions of membership.
- To provide members with the opportunity to increase their knowledge of, and expertise in, the conduct of credible risk management studies so as to fully meet the approaches required by the latest generation of regulatory requirements for ensuring health and safety and in particular dangerous goods safety.■

What is the value of becoming a provisional member?

With the transfer of risk accountability from Statutory Authorities direct to Businesses and with the change away from prescriptive legislation to performance based criteria; consultants are being required to re-direct their expertise towards risk management techniques.

Benefits as a member include:

- access to intensive training programmes;
- representation to authorities, utilities and client associations;
- continue the role of the dangerous goods consultant;
- access to information resources;
- have your professional competency in the area of dangerous goods recognised;
- annual conference; routine general meetings; quarterly newsletter.

Join a distinct group of provisional members in establishing the Institute.

Examinations

Worried about the examinations?

Don't be, as a training program in workshop format will be provided for all provisional members to attend.

Training is proposed to be run over 2 days and would cover NSW Dangerous Goods Regulations, ADG Transportation Code and each of the Classes of Dangerous Goods.

The examination would cover sections of the NSW Dangerous Goods Regulations, the ADG Transportation Code and sections on each AS/NZS Standard. There will be no specific time limit. It is an open book exam. A series of questions and case studies to be compiled would be "drawn out of a hat" or similar. An oral exam would be carried out to determine any areas requiring clarification.

Projects



Members participate in a wide range of projects and the editor welcomes a summary of an interesting project from a member or a sponsor for future newsletters.

Projects undertaken by provisional members are extensive and extend across Australia, New Zealand and onto the Asia Pacific Region. Noted projects of two members –

- ◆ Graham Goodfellow – The Botany LPG Cavern aboveground works for Classes 2.1, 3 and 8.
- ◆ Richard Hall – In conjunction with Richard Benbow completed an EIS for a Dangerous Goods storage facility for a paint, resin and lubricant manufacturing facility requiring numerous depots and aerosol filling facility.

STORE-SAFE

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Leichhardt NSW 2040
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Technical Q&A

Q. How do I work out the weight of LPG that can be stored in a gas tank when I know the water capacity WC is 7500 kg?

A. As a rule of thumb, the WC is multiplied by 80% to allow for an approximate 20% of ullage in the tank and then converted using the specific gravity of propane, 0.51, by the simple calculation $7500 \times 0.8 \times 0.51 = 3$ tonne LPG. More precise calculations can be followed in AS1596.

Q. I have a Class 3 packaged goods store which is a licensed depot and is a major storage area under AS1940 and I need to find a suitable storage area for some 3 x 20 Lcontainers each of Class 3 sub risk 6.1 PGII, Class 6.1 sub risk 3 PGII, some Class 4.1 and Class 9 (Environmentally Hazardous) dangerous goods. What am I allowed to store in this depot?

A. The Class 3(6.1) is okay to store provided a licence amendment is obtained from the WorkCover Authority and an examination of increased risk is undertaken, e.g., toxic gas releases in a fire. The Class 6.1(3) cannot be stored in this depot unless specific approval is obtained and the recommended approach would be to find an alternate storage area at least 5 m from the Class 3 licensed depot and follow AS/NZS 4452 for minor storage requirements.

Similarly the Class 4.1 needs to be stored elsewhere except if Clause 147(5) of the Dangerous Goods Regulation applies.

The Class 9 would require risk and compatibility assessments before deciding if this would be permitted, again a WorkCover exemption is required in accordance with Clause 3.2.11 of AS1940. AS3833 may also be useful to guide the type of assessments needed in preparing a case for exemption.

A fabulous bottle of Australian wine will be sent to the first reader who responds with at least 2 other main pertinent clauses of the Dangerous Goods Regulation that apply to this question.

Case Study

Collapse of a bulk liquid storage tank for flammable liquids at a facility in China resulted from painters sealing a PV Valve.



Courtesy: BP Australia.

Editors Note – Send in your problems for use as a case study.

Editors Prize – each newsletter – a fabulous bottle of Australian wine will be sent out to the author of the best problem or question that is used in the newsletter (provided of course an answer is also provided!).

Accidents

Personal communication between the editor and an officer of the NSW Fire Brigade recounts a fatal injury to a resident who filled his lawnmower from a 4 L container of petrol within the laundry of the residence. A gas hot water appliance was also located in the laundry. The resident undertook this practice routinely over many, many years without any incident. On the last occasion the petrol vapour was ignited by the gas pilot light causing serious burns to the resident who died as a result of these injuries.

Suppliers

Who supplies stormwater isolation valves for fire water containment?

Razorback Engineering
Telephone: (02) 4636.6414

Who supplies steel spill trays for drums of flammable liquids or combustibles?

Eastwest Engineering
Telephone: (02) 9938.6944

Who supplies plastic or corrosion protected banded pallets for liquids of Class 6 or Class 8 Dangerous Goods?

Specialist Pallet Sales and Rentals
Telephone: (02) 9975.7758

Our Logo – What does it stand for?

The logo is based on the Mixed Dangerous Goods Sign shown on Page 122 of ADG Transportation Code. The nine stripes representing the nine classes of dangerous goods.

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