

PETERBOROUGH SECTION
EVENING MEETING 21 JANUARY 2010
EUROCODE 3 – THE DESIGNER AND FABRICATOR OVERVIEW
ORTON HALL HOTEL
PETERBOROUGH

Our fifth technical meeting brought together two speakers to discuss the possible effects of the forthcoming Eurocode 3 on the steelwork industry. The purpose of the talk was to highlight some of the important aspects of the new code and to identify some of the pitfalls. Neil Smith is the Operations Director for Adey Steel Ltd and he presented the fabricator's overview. Mark Palmer is a Principal Structural Engineer for Royal Haskoning in Peterborough and he presented the designer's overview.

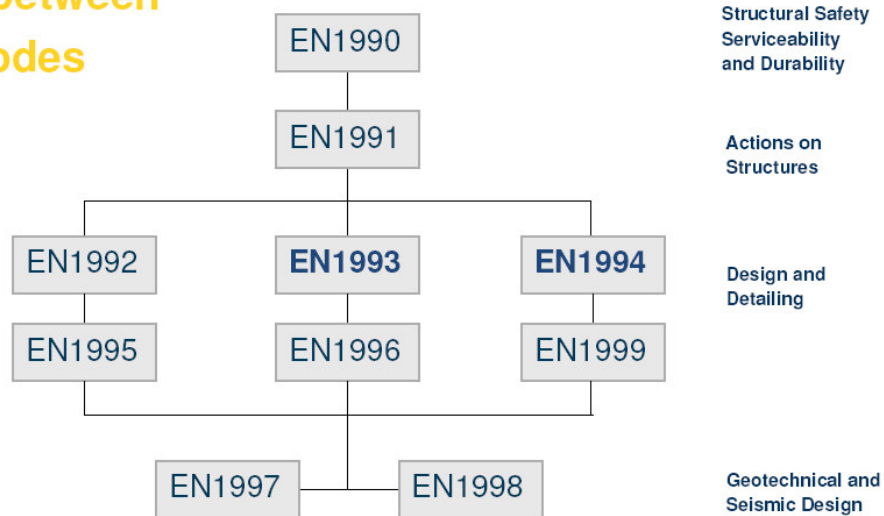


Speakers Neil Smith on left and Mark Palmer on right

The talk was kicked off by Mark Palmer who gave an overview of the Eurocodes and when they would be adopted. Below is a key slide which shows the links between the Eurocodes. Mark then went on to quote the current comments being made in the steelwork industry. The comments included the need to have to use the Eurocodes after March 2010 and that the BSI will be withdrawing 57 British Standards in 2010. He also stated that the industry is expecting a typical design practice may need a cost of £254,000.

Mark then set out the additional information will be needed over and above purchasing the Eurocodes, namely 20 National Annexes, 4 Published Documents, 50 Non Contradictory Complimentary Information and finally the associated software.

Links between Eurocodes



After explaining the main differences between the Eurocode 3 and BS 5950, Mark then gave some helpful websites which may help designers get through the big changes.

Information for Designers

Help is at hand!!

Access Steel

SCI

Eurocodes Expert

Steelbiz

BCSA

www.access-steel.com

www.steel-sci.org/Information/Eurocodes

www.eurocodes.co.uk

www.steelbiz.org

www.steelconstruction.org

The second talk was presented by Neil Smith of Adey Group. Neil started his talk with an agenda of the effects of the Eurocodes would have on Steel Fabricators.

Agenda

- Introduction to the Adey Group
- Are fabricators ready to take on Eurocodes?
- Will connection design to Eurocodes be problematic?
- Design Software – Is It Ready?
- CE Marking for fabricated steelwork
- New Tolerances – Effect on manufacture?
- Steel Grades
- Welding
- Fabricators Objectives
- Main Contractors – Expecting cost savings or increases?
- Industry Advice – BCSA

Neil confirmed that CE marking of structural steelwork (BS EN 1090-1) expected to come into force in May 2010 and it should become mandatory by 2012. The CE marking will cover factory production control, welding quality management systems, responsible welding coordinators and international welding engineers. Neil confirmed that the CE marked product will be achieved by certifying drawings, O&M manuals, material certificates, weld procedures and signed fabrication drawings.

Neil confirmed that the SCI will be issuing an update to the Green Book – Joints in Steel Construction. SCI are working in the development of new connection detail and new tying model to improve tying resistance, whilst retaining nominally pinned classification of end plate connections. Neil reported that the software they use will be ready to design to the Eurocodes. He also reported on the harmonised standards such as BS EN 1090. He also highlighted the inclusion of the execution classes

Exc 1 – farm buildings

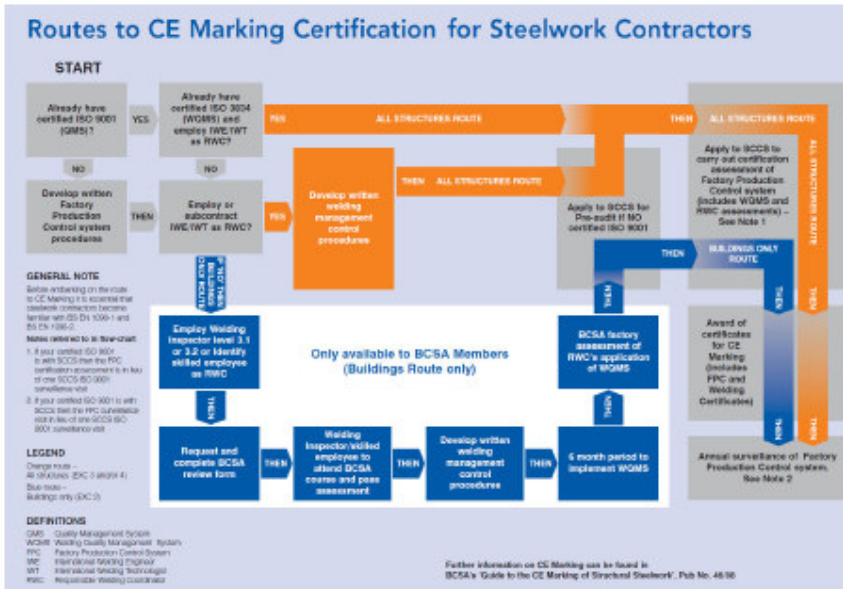
Exc 2 – buildings

Exc 3 – bridges

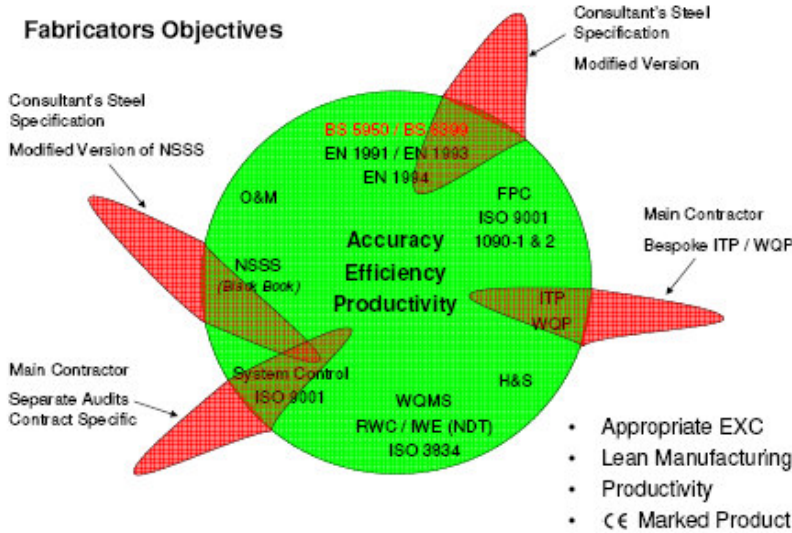
Exc 4 – long span bridges and power stations

Neil finally emphasized the revision and changes to the welding specification and welding quality management.

Neil then displayed two useful flow charts which are attached below:-



Routes to CE Marking Certification for Steelwork Contractors



Fabricators Objectives

The evening was very informative and we give our thanks to the speakers for an interesting talk.

Report by Mark Palmer

Peterborough Section Committee Member

