Together we deliver

Utility Strike Avoidance Group

Steve Crossland

11th Dec 2014
Utility Strike Avoidance Group

What is USAG?
• Members
• Terms of Reference
• Steering Group
• Safe Dig Charter

What is the CGA?
• Background
• Mission
• DIRT

What is next?
Members:

- Associations and Regulators
- Asset Owners
- Contractors
- Service Providers
Aims and Objectives

- To manage and oversee all information published within the USAG framework of committees
- To ensure duties under health and safety legislation are implemented consistently by all partners and to discuss and assess the impact and application of draft legislation
- To promote health and safety practice throughout the utility and construction industries via an agreed programme of work, to be kept under regular review
- To share and exchange any other relevant information affecting the utility and construction industries
- To provide a forum for HSE to raise issues of operational policy that may impact on the represented industries
Terms of Reference

• Develop a consistent approach by all members to ensure that legal duties are complied with as an absolute minimum
• Share and promote good practice in all work activities carried out in proximity of and on utility services
• Support industry initiatives and campaigns designed to reduce the incidence of utility strikes
• Promote the reporting and analysis of data to identify industry trends and develop responsive actions
• Maintain close liaison with other relevant groups within the utility sector including HSE
• Raise awareness amongst other parties including designers, training providers and equipment manufacturers of their responsibilities for and influence on the provision of utility services
• Identify new and emerging hazards and risks
• Develop and promote industry wide programmes and initiatives and relevant guidance as necessary to promote training and skills related issues
Steering Group:
ENA
NGN
BB
Amey
Network Rail
HAA
HSE
Scottish Water
Clancy Group
Pelican Corp
Scottish Power
South East Water
<table>
<thead>
<tr>
<th>Governance</th>
<th>Accountable to the member organisations represented within the Group and to the wider membership.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chair</td>
<td>Chaired by ENA or a member of the Steering Group in ENA’s absence.</td>
</tr>
<tr>
<td>Secretariat</td>
<td>ENA SHE Team provide secretariat and support services to the Group to ensure agendas, meetings, outputs and actions are progressed in accordance with the Group’s aims and objectives.</td>
</tr>
<tr>
<td>Frequency</td>
<td>The Steering Group will aim to meet not less than four times each year to provide business continuity.</td>
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Utility Strike Avoidance Group

Toolkit

Safe Dig Charter

Other Features
- Newsgroup
- Meetings/Documents
- Press releases

Web-site: www.utilitystrikeavoidancegroup.org
Toolkit

Planning
Responsibilities
Training
Permits, Calibration and Daily Inspection
Key Risk Guidance
Personal Protection
Investigation Process and Record
Safe Dig Charter

We will:

1. Ensure that all work carried out by us or on our behalf is properly planned and that those responsible are aware of their responsibilities and how to carry them out.

2. Ensure that all people working on our behalf are assessed to ensure they are competent and capable of carrying out the task given to them and that at least one person in each work team is competent in the use of cable detection equipment to its full potential.

3. Ensure that excavations, including those undertaken by anyone excavating on our behalf, are carried out in accordance with safe systems of work, company or USAG procedures.

4. Ensure that the equipment provided for the detection and avoidance of services is inspected, calibrated and tested in accordance with the manufacturer’s requirements and that records are kept, including a daily check to ensure that the equipment continues to operate as expected.
Safe Dig Charter

We will:

5. Ensure that all those working, including those on our behalf use the correct protective equipment and are trained in its use.

6. Ensure that relevant latest utility asset drawings are available to people excavating, that our work is inspected and audited and that failure to achieve the expected standards is recorded.

7. Ensure that where damage to utility assets occur, a suitable and sufficient investigation takes place, that learning is shared and that action is taken to reduce the risks to those carrying out the work.
• What is it? - an insight to what the CGA is all about
• Its Background? - how/why/when was the CGA formed
• Its Mission? - the Purpose of the CGA
• Its Structure? - overarching governance and Committees
• What is DIRT? - an annual report on utility damage
What is it?

- A member-driven association
- An organisation focussed on the reduction of damages to all underground facilities
- Promotes best practice
- Represents key stakeholder groups
- 2,000 corporate members and 58 major sponsors
Background

• Formed in 2000
• The CGA provides the optimal forum where stakeholders can share information and work together on all aspects of damage prevention issues.
• The CGA works with industry stakeholders and regulators to produce stronger, more effective results through partnership, collaboration and the pursuit of common goals in damage prevention.
Mission

The CGA works cooperatively, fostering a sense of shared responsibility to enhance safety and protect underground facilities by:

- Identifying and disseminating the stakeholder best practices
- Developing and conducting public awareness and education programs
- Sharing and disseminating damage prevention tools and technology
- Serving as the premier resource for damage and One Call centre data collection, analysis and dissemination
Structure

The business and activities of the CGA are managed by the Board of Directors.

Each stakeholder group within the CGA is represented by a Director on the CGA Board.

The CGA comprises of 7 working committees:

- Best Practices
- Technology
- Data Reporting & Evaluation
- Educational Programs and Marketing
- One Call Systems International
- Regional Partner
- Stakeholder Advocacy
The CGA pledges confidentiality to its stakeholders who submit data to the Damage Information Reporting Tool (DIRT).

The CGA recognises the sensitive nature of DIRT data which stakeholders customarily keep confidential and away from public disclosure.

The primary purpose in collecting underground facility damage data is to analyze data, to learn why events occur, and how actions by industry can prevent them in the future; thereby, ensuring the safety and protection of people and the infrastructure. Data collection will allow the CGA to identify root causes, perform trend analysis, and help educate all stakeholders so that damages can be reduced through effective practices and procedures.
DIRT – Damage Information Reporting Tool

207,779

232,714

224,616
DIRT findings...

Distribution of known events by root cause group
## DIRT findings...

<table>
<thead>
<tr>
<th><strong>Excavation Practices Not Sufficient</strong></th>
<th><strong>Number of events</strong></th>
<th><strong>Percentage of events</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Other excavation practices not sufficient</td>
<td>67,995</td>
<td>84%</td>
</tr>
<tr>
<td>Hand tools not used</td>
<td>4,493</td>
<td>6%</td>
</tr>
<tr>
<td>Clearance not maintained</td>
<td>5,335</td>
<td>7%</td>
</tr>
<tr>
<td>Marks not maintained</td>
<td>1,750</td>
<td>2%</td>
</tr>
<tr>
<td>Test hole not used to verify</td>
<td>878</td>
<td>1%</td>
</tr>
<tr>
<td>Exposed facility not supported</td>
<td>498</td>
<td>1%</td>
</tr>
<tr>
<td>Backfilling improper</td>
<td>76</td>
<td>0%</td>
</tr>
</tbody>
</table>

*Distribution of root causes for group “Excavation Practices Not Sufficient” (known events)*
Looking ahead......

Launched 30th June 2014
Successful service location is contingent upon:

- provision of time
- adequate resource
- competent personnel
- provision of accurate information, technique and management support
The list opposite has been compiled from the information gathered from contractors involved in the CECA project. It highlights the main constituent parts that, if adopted and practiced, would have most impact on reducing service damage.

<table>
<thead>
<tr>
<th>Ingredients for Success</th>
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<tbody>
<tr>
<td>1. Service location, not service avoidance.</td>
</tr>
<tr>
<td>2. Service location is a separate activity on the programme.</td>
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<tr>
<td>3. Best quality utility drawings and plans sought and provided.</td>
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<td>4. Utility drawings show the smaller services to residential and commercial properties.</td>
</tr>
<tr>
<td>5. Training given is over a number of modules, over a number of months.</td>
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<tr>
<td>6. Genny is used first, before the CAT.</td>
</tr>
<tr>
<td>7. Two people are involved in using the Genny.</td>
</tr>
<tr>
<td>8. The cost of service damage is measured and tallied.</td>
</tr>
<tr>
<td>9. The number of services avoided or number of meters dug without hitting service is measured.</td>
</tr>
<tr>
<td>10. Operatives provided with regular feedback about the amount of services avoided successfully.</td>
</tr>
<tr>
<td>11. Supervisors are acknowledged for their gangs’ ability to avoid services.</td>
</tr>
<tr>
<td>12. Supervisors are held to account if services are damaged.</td>
</tr>
<tr>
<td>13. All accessories are supplied with the Genny.</td>
</tr>
<tr>
<td>14. Regular refresher training is given.</td>
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<tr>
<td>15. Senior Manager measures the desired behaviours of managers and supervisors.</td>
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<tr>
<td>16. Information is accurately recorded and sent back to the utility company.</td>
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<tr>
<td>17. Operatives are trained on safe digging techniques.</td>
</tr>
<tr>
<td>18. Machine operator does not dig until services are located.</td>
</tr>
<tr>
<td>19. Adequate time and resource is allowed. Programme pressure recognised as a specific risk</td>
</tr>
</tbody>
</table>
A study of investigating incident (utility damage) patterns has been undertaken.

Incident data was obtained from:
- 2 major utilities contractors
- 1 major civil’s contractor
- 2 regional civil’s contractors
- 1 aviation client
- 1 water company
- Transport for London
In the UK – sharing of Knowledge?

Data Analysis:
- Type of service
- Day and time
- Location of work
- Excavation tool
- Severity of damage
- Root cause

Distribution by Day
- Based on 7 years worth of data

Distribution by Time
- Based on 7 years worth of data
Data & Reporting Working Group

Utility Strike Avoidance Group

2013 Utility Strike Report

- Damages/Strikes
- Month Incident Occurred
- Time of Day
- Location Type
- Equipment Used
- Incident by Asset
- Incident Cause
- No of RIDDOR
Request to USAG members 21.10.14
- Letter
- Non Disclosure Agreement
- Template

CECA sign up to USAG
CECA contact members 23.10.14

Returns by 28.11.14
Preliminary Results:

- No of Respondees?
- No of Incidents etc etc?
- Any trends?
- Final Report date?
- 2014 strikes data?
THANK YOU

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