



**“Getting to grips with utility information and all the Acronyms”** by Jeremy Haigh Director at Premier Energy.

I have read recently that acronyms are generally bad because people don't understand what they mean and they are often unnecessary. The article was, at least a bit, about the new British Standard PAS 128 and I couldn't disagree more. Acronyms enable us to remember what's important about what we are doing and provided people understand what they mean to them then they are good because people remember them! CDM regs and HSG 47 are accepted acronyms but why are they in utility reports? A set of motoring analogies are that we communicate that we aspire to drive a BMW or a TT not because of the acronym or because we know what they actually mean but we accept the acronym because we know what they mean to us. To my son, a 2L HDi is nothing but the best diesel engine ever built, does it matter that he doesn't know what HDi actually means provided that he knows what it means to him?

The utility report and utility information management market is now full of acronyms and I thought I would share which ones are important to people and why I think they should be important to them. Because there are so many it is difficult to know where to begin, maybe its better to try and assess importance along the development lifecycle, so here goes:

RICS. The Royal Institution of Chartered Surveyors issue guidance on this stuff. For me though the use of utility reports and proper utility discovery for the Land Buyer, Valuer or Estates Surveyor is about costs. Enabling them to arrive at a more reliable residual value for the land that a developer is buying. Proper utility discovery early on in this process enables an assessment of any disconnections and diversions as well as the costs of new connections to whatever they are developing. They then hand the information they have gathered on to the remainder of the development supply chain.

NRSWA \* The New Roads and Streetworks Act. This places the responsibility of proper utility discovery, prior to breaking the ground, onto the contractor. It is right to do so, in my view, because after all it is what happens on site that ultimately keeps our site operatives safe. Safe digging practice has to leave the responsibility firmly where it is because there are many different technologies that can help, not to mention the need for careful hand digging where an operative is at any risk!

CON 29. A Law Society water and drainage consultation for conveyancing, usually undertaken by a solicitor. Beyond water and drainage the solicitor can do a cross check with any missing rights agreements for any utility, not deposited with the Land Registry or with the title deeds. They can get a picture of whether a utility may be in trespass because boundaries have shifted on the ground against older mapping. The Premier Utility Report is available with or without a water and drainage

plan, which enables a client to save money by not paying again for the plans already included in the CON 29 carried out by the solicitor.

CDM Regulations 1<sup>st</sup> April 2015\*\* Construction, Design and Management Regulations. It seems to me that gone are the days where a client or a designer says “Utilities, excuse me? **Not** in scope! That’s the contractors responsibility!”. The new rules require the Client and Principal Designer to deliver to the Contractor the pre-contract information. Buried Services being a major Health and Safety risk, surely it should no longer be just the contractor’s responsibility to do proper utility discovery irrespective of what is said in NRSWA.

HSG47\*\*\* Health and Safety Guidance No. 47 “Avoiding Danger from Underground Utilities” Updated in 2014, this nowadays goes as far as to suggest that clients buy a utility report or use a searching system. I can only think that this is because of the complexities of who owns which assets since deregulation. But more importantly it goes on to give guidance on recording where a contractor has moved plant on site, not built it in accordance with his specification or where plant is not installed in accordance with the plans he has been given. HSG 47 requires that any one of these variations should be reported to the utilities concerned so that they can ensure that their records are as accurate as they can be.

PAS 128\*\*\*\* – The British Standards Institutes’ (Publicly Available Specification) PAS 128:2014 clarified for clients and practitioners what they should be doing for each level of survey in the utility discovery process. It says that a proper utility search (QL – D) should be carried out with every level of survey. More than that, it enables clients, consultants and practitioners to define what level of survey they want and where. It enables cost effective survey tendering and helps the client to quantify the value of proper utility discovery earlier in the development lifecycle. Disconnections and diversions can be expensive, the latter sometimes taking years to negotiate. The earlier a client starts the better. He must design to minimise utility conflict and negotiate with the utility with plenty of time to spare rather than just paying the worst case scenario costs right at the point he wants to break the ground. For me, if he does not do this then he will never get the return on investment he needs to justify the expenditure incurred in proper utility discovery. That is unless he quantifies the risk of litigation and any implications of HSG 47 and the new CDM regs.

ICP’s; UIP’s; IGT’s and IDNO’s. There is good news here – you don’t need to worry about these and who owns what plant and where. This is one of the great things our clients pay us for. The Premier Utility Report is not just a mailbox service like our competitors. We use “intelligent searching” and check the plans to ensure that our clients understand whether they are present in the area. We go and get their plans as well. Very easily missed by mailbox services and there are a large number of them present in streets all over the country.

To rub salt into your acronym wounds I have another for you! A PALM – Premier Asset Layered Map. A genuine innovation brought to you by Premier Energy, where all the utility information on the C2 utility report plans are transposed onto one base map for only a fraction of the cost of a CAD engineer doing the same task. Not just a line drawing, the PALM delivers all the information (where shown on the plans), chambers, pole details, pressures, valves, cabinets, pipe diameter changes etc. onto the one base map. Invaluable against the recording and reporting requirements in HSG47 and also enabling clients to easily define scope extents for effective PAS 128 tendering.

Finally two more - GIS and BIM. Our PALM is particularly useful for utility conflict visualisation in Geographic Information Systems and is available in .dwg and exportable into many other

geoinformation management formats. Whole life BIM (Building Information Modeling) systems are enabled with a QL – D information layer.

Acronyms, like better utility information, help us understand and remember. They help us improve what we are doing and we should seek to understand and embrace them. Embrace them as we should do innovation and change, because that is how we all evolve positively.

### **Credits, References and Further Reading.**

Jeremy Haigh is a Board Director at Premier Energy Services having spent 20 years in the utility industry. A graduate of Westminster University with a degree in Estate Management, he started his career in Wireless Network Rollout acquisition, moved into fibre network utility consents, claims and information management with a particular interest in the evolving Geospatial systems management of information. He took part in the BSi PAS 128 steering group with a particular QL – D specialism. He is a supporting architect of the new Utility Report and Utility Mapping (PALM) product set and an expert in utility discovery and consulting for developers and their development supply chain. <https://www.linkedin.com/pub/jeremy-haigh/20/42b/794>

Premier Energy Services is the original niche Utility Consultant in the UK co-founded by Jason Raymond over 20 years ago to take advantage of consulting in the deregulated utility industry. Whether you are developing, designing or constructing small residential sites; large mixed use developments; commercial properties or infrastructure schemes, Premier can support you. Take advantage of our proven and cost effective services to overcome the challenges associated with all your utility problems and requirements. With our extensive knowledge of the utility industry, their methods of working and our excellent network of contacts at all levels, we can help you develop your projects from inception to completion. Our services begin with underground utility search reports, progress through disconnections and diversionary works, fulfil utility CDM requirements and procure your new connections. Our extensive range of off the shelf and bespoke service offerings really deliver value to your project. [www.premierenergy.co.uk](http://www.premierenergy.co.uk).

\* NRSWA - The New Road & Streetworks Act 1991. <http://www.legislation.gov.uk/ukpga/1991/22/contents>

\*\*CDM - The Construction (Design and Management) Regulations 2015

<http://www.hse.gov.uk/Construction/cdm/2015/index.htm>

\*\*\*HSG 47 - Whole document. Sections 61, 64 and 125 on contractor reporting.

<http://www.hse.gov.uk/pubns/books/hsg47.htm>

\*\*\*\*PAS 128 - Specification for underground utility detection, verification and location.

<http://shop.bsigroup.com/ProductDetail/?pid=00000000030267400>