

Nuclear Site Effluent Pipeline Refurbishment

UPlus has won a contract with Magnox North Sites to refurbish an effluent line at the Chapelcross nuclear power station in south west Scotland.



The black-skin ProFuse being installed at Chapelcross

This important contract includes full design, build and commissioning of a bespoke pipe lining solution by UPlus as the tier 1 contract partner. The pipeline to be refurbished passes through areas classed as environmentally sensitive, presenting some engineering difficulty. A bespoke, 180mm PE100 multilayer pipe was produced and combined with a pipe insertion method to minimise impact. When completed, the 6.2km refurbished line will be used to drain naturally occurring water rising within the nuclear licensed site boundaries, maintaining site safety and integrity.

Steve Kirk of UPlus said: "Winning this contract shows we are able to provide practical solutions to customers' unique problems. By offering the ability to support MNS and the Nuclear Decommissioning Authority teams from safety case right through to final acceptance testing, we have given them the confidence to specify polyethylene pipe solutions in areas they have not traditionally been applied. We are therefore providing the innovative and cost-effective solutions needed to deliver decommissioning in this sector."

Chapelcross was the first nuclear power station in Scotland, generating electricity from 1959 to 2004. It provided important jobs to the local economy. A decommissioning programme is currently underway at the site. In designing its approach, UPlus partnered with companies local to the site, the principal partner being RH Irving, who provided civil engineering ground works.



"Winning this contract shows we are able to provide practical solutions to customers' unique problems" said Steve Kirk of UPlus

Radius Systems Enters Joint Agreement with Senaat

Radius Systems is to strike a joint venture agreement with the highly respected Abu Dhabi-based Senaat Group.

Consisting of three United Arab Emirates owned industrial groups, the Emirates Conversion Industry LLC partnership (known as Senaat) is one of the emerging investment companies in Abu Dhabi. It has investments in a wide range of sectors, including metals, marine, infrastructure and petrochemical downstream developments.

The agreement will bring Radius Systems' manufacturing expertise to the UAE area, leading to full-scale manufacturing in Abu Dhabi. It is part of a planned programme of international expansion by Radius Systems, backed by owners 3i.

Initially, Radius Systems' expertise will shape the introduction of high-performance plastic pipes and fitting systems for potable and non-potable water, gas and telecommunications to this key growth area. By providing products - and full production processes - Radius Systems brings the benefits of world-class products and expertise to companies operating in the Gulf region.



Andre van Uffelt, CEO at Senaat commented: "We are proud to have a partner like Radius Systems investing and delivering a commitment into our region. Based on the Abu Dhabi Economic Vision 2030 we aim to set up industries which offer long-term solutions for the Emirate of Abu Dhabi. Senaat, in line with the Abu Dhabi government, has a core commitment to build sustainable and diversified, high value-added conversion industries.

"With Radius Systems we have a partner offering technology, processing and application expertise. Furthermore, with their product portfolio, we can enhance and improve piping systems for oil and gas applications and the increasingly important need to offer high quality systems for drinking water and sewage."

"We were looking for a professional partnership to expand our international operations. The fit with Senaat was perfect, with our respective backgrounds in oil and gas derivatives." commented Radius Systems' CEO, Stuart Godfrey.

Radiate



A Message to Our Customers...

"We all know the impact that the world recession has had on parts of the construction industry, during which Radius has worked hard with customers to find solutions that benefit all parties. I'd like to thank you on behalf of everyone at Radius for the loyalty and support you have shown. This has enabled us to stay ahead and weather the storm with little impact on our permanent staff. We hope to continue doing business with you well into the recovery period and hope a more vibrant economy will enable the investment in new cost-effective solutions."

Stuart Godfrey
Radius Systems CEO

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Contact Us

We welcome your feedback on the Spring issue of Radiate:

- Do you have any submissions or suggestions for future articles?
- Enquiries on featured products?

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Valued Customers

United Utilities Values UPlus Expertise

When United Utilities required an air valve fitting to a 1000mm diameter water pipe near Huyton, Liverpool, they contacted Radius Systems' specialist installation division UPlus.

The high point of the new pipeline was identified for fitting an air valve onto a new polyethylene (PE) pipe. However, the proximity of an 18-inch medium pressure gas main meant space was at a premium. The large excavations that would normally have been required (as shown in the first photo), would have led to an expensive diversion of the gas main.

Using a bespoke 1000mm x DN150 branch saddle designed and manufactured to order, UPlus was able to fit and test the saddle and drill the main within a 3m x 3m excavation. This saved time and potentially tens of thousands of pounds in costs for the customer.

“ **United Utilities Design Manager Matt Lomax commented:**

This may well be a first of its kind at this size, and we were very impressed with the work done by UPlus. This was a tailor-made fitting and it was successfully installed in just a few hours.

Large Diameter Pipes for Northern Ireland

As part of Northern Ireland Water's ongoing investment programme the Castor Bay to Dungannon STM project replaces and supports existing drinking water sources in the Dungannon area. The project commenced in September 2009, to future proof the existing network infrastructure.

Radius pipes – which are being manufactured locally at the quality accredited Lurgan and Banbridge factories – have been specified in diameters of 400mm, 630mm and 710mm for the £10 million 51 km scheme. 27.5km of it is in polyethylene (PE).

Nick Shanks, Business Development Director at Radius Systems, was delighted with the significant order, won against competition from mainland Europe. "The quality of our PE products, combined with our investment in local manufacturing, means we can provide a first class and convenient service."

The consortium delivering the project is BWW Water, a joint venture between Dawson Wam and BSG Civil engineering. Rodney Moates, Contracts Director for BWW Water, commented: "Weather conditions have made for a challenging start to the project, most of which is to be laid through agricultural land. However the delivery of this project will bring significant benefits to consumers and ensure that NIW drinking water supply objectives are met for the foreseeable future."





Typical excavation and assembly



The Radius PE air valve being installed, with minimal excavation required



One of Radius Systems' factories in Northern Ireland will be supplying pipes for this prestigious project

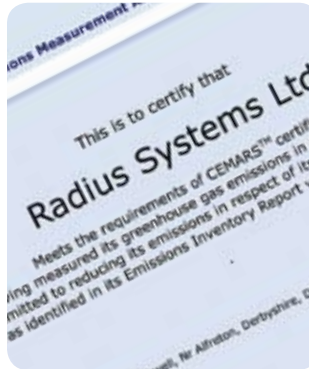
Pipe Donated for Workington Floods Bridge



Radius Systems donated 600 metres of 110mm SDR11 black pipe for general purpose ducting in November to the flood-hit town of Workington. The pipe was used across the collapsed bridge area in the town, to help restore and protect communications services.

The collapsed bridge, which featured widely on TV, carried important cabling for telecoms services to the town. The loss of these services affected not just phones, but also bank machines and any other electronic hardware requiring continuous online access. The restoration of the communication services was just part of the massive clean-up project, which is still ongoing.

CEMAR Registration Complete



Radius Systems is now certified under the Certified Emissions Measurement and Reduction Scheme (CEMARS). It joins utilities such as Anglian Water, National Grid, Northumbrian Water, Scottish & Southern Energy and United Utilities.

The scheme measures a company's greenhouse gas emissions in compliance with ISO 14064-1. It demonstrates a company's commitment to reducing such emissions in respect of its operational activities as identified in its Emissions Inventory Report.

Unsurprisingly, with manufacturing processes, electricity is the main emission, accounting for almost 75% of Radius Systems' emissions. Product haulage is the next biggest type, accounting for 21%. These figures are baseline and will be measured to chart improvements in years to come.



A Little Bit More from Radius Systems...

...SMS Messaging for Pipe Deliveries

In order to make deliveries more efficient, we are now text messaging customers prior to the arrival of deliveries.



This is in direct response to a survey we carried out last year, in which customers told us delivery was of high importance, second only to quality. We have developed a vehicle tracking system which enables us to automatically text message customers when vehicles are 30 miles from the delivery point.

We piloted this scheme through National Grid in 2009 and are now rolling it out to our full customer base during 2010.

SUPER Scheme Recycled Pipes in CeDo Bin Liners

The SUPER Scheme for reducing and recycling plastic waste continues to gain momentum. Latest news is that CeDo, Europe's household disposables leader, is now using Radius Systems' second-life plastics in its EcoMin II refuse bags supplied to supermarkets.

All types and colours of Radius pipe and fitting waste can be used for SUPER scheme products. This scheme has, to date, reprocessed 2,395 tonnes since 2005. It functions in 165 locations across the UK and Northern Ireland.

CeDo's Group Material Technology Manager David Brookes commented: "The grade and quality of Radius Systems' polymer is an excellent fit-for-purpose material. Radius management are as one with us in investing resource and technology on environmental matters."

The SUPER Scheme has won a number of UK national awards, including a prestigious Green Apple award.

Middle East Plastic Pipes 2010
17-19 May 2010, JW Marriott Hotel, Dubai

- Dr Jeremy Bowman to speak about the benefits of skinned PE pipes in the Middle East
- Keith Mole of McElroy Manufacturing to speak about improved productivity/safety with HDPE pipes
- Register online at www.amiplastics.com



Dr Jeremy Bowman speaking at a seminar of the GPPA (The Gulf Plastics Pipe Association) in Dubai in November 2009

Radius Offers Safe Handling Expertise to JCB

Following the success of its Best Practice Guidelines on Safe Delivery and Unloading of PE Pipes, Radius Systems was invited to exhibit its gas pipe coils at JCB's headquarters in Rocester, Staffordshire. The event incorporated items involved in typical onsite utility installations. These varied from gas pipes and ducting to trench excavation, building materials and traffic control, and of course, JCB plant!

All companies supplying materials also had stands at the JCB exhibition centre for the two-day event. Radius Systems was able to show the safe pipe handling DVD (endorsed by RoSPA and the HSE) to visitors.



Radius gas pipe coils being used at JCB's HQ



New Delivery Schedule for Ireland

We have been working closely with our distributors to strengthen the supply chain in Ireland.

A new delivery schedule has been published which took effect from 1 April 2010. Radius firmly believes this will improve our customer service.

RADIUS Systems Delivery Schedule

Key:
● Monday delivery
● Tuesday delivery
● Wednesday delivery
● Thursday delivery
● Friday delivery

Notes: A legend colour does not indicate a weekend delivery day in some cases.

Get direct deliveries from the manufacturer: call Radius Systems on 048 4066999 (charged at local rates)



Record Number of Kitemarks

The latest Kitemark awarded, making a Record total of 17



Radius Systems achieved its first Kitemark (when it was part of Uponor) back in 1994. It covered pipes produced for the UK water industry. Gas certification at that time was done through British Gas.

After the gas industry fragmented in 2005, BSI standards for the gas industry were introduced – and Radius Systems has collected quite a batch! To date we have seven Kitemark licences for gas products, six for water products and two for industrial products, (with a further two for industrial products due to be awarded).

We believe that with the last two Kitemarks, bringing our total to 17, we will be amongst the top companies in the UK's construction sector for number of Kitemarks awarded and retained. We're certainly proud to have achieved and retained these key quality standards. They provide reassurance to our customers of regular, independent testing.

Long Service Industry Recognition for Peter Jellis

Radius Systems' Peter Jellis has been awarded honorary life membership of the Pipeline Industries Guild.



Peter Jellis (r) pictured with Steve Loggie, National Chairman, Pipeline Industries Guild

Described in his citations as 'a staunch supporter of the Pipeline Industries Guild for many years,' Peter served the Northern Branch as committee member and branch secretary until 2008. He then became a co-opted committee member on taking up Chairmanship of IGEN's Northwest Branch.

Responsible for many 'firsts', amongst other things Peter introduced the very successful Northern Branch go-karting event, the Branch Spring Ball and the Branch Golf Day.

The award citation further read: "Peter demonstrates the spirit of the Guild in all that he does. He is committed to the aims of the Guild, his outgoing personality makes him very personable and approachable and his hard work has ensured the Guild's continued success at both National and Branch level. In all the posts he has held with the Guild he has served with professionalism and a clear passion."



Despite the wet and freezing conditions, Mark (L) and Derek battled through their journey

Radius in the Community Charity Bike Ride

Radius employees Mark Hunter and Derek Muckle have raised £231 in a chilly Coast to Coast bike ride from Whitehaven to Sunderland. They covered a distance of 135 miles – in one day! Mark commented that it was pitch black when they set off and pitch black when they finished. The freezing and wet conditions in between made it quite a tricky journey!

The money raised went to Breast Cancer Research.



Keith Donald

HR Resource Strengthened

Keith Donald and Halinka Hepworth Join Radius

Keith Donald has joined Radius Systems as General Counsel and Human Resources Director after Robin Freeman's retirement.

Keith's impressive credentials include five years at Molson Coors where he was Business Services Director, responsible for 200 people and managed legal matters, HR, property, communications and administration. He has also worked for an international water company and a mining operation, with long-term postings in Ecuador, Bolivia and Kazakhstan. He has been an in-house lawyer since 1980, having qualified with Law at Sheffield University. He was called to the Bar in 1978.

Keith will be bringing an international perspective to Radius Systems as the company's expansion continues, as well as ensuring the talent within Radius Systems is nurtured and grown. He will be improving communications within Radius, and promoting training and development.

Keith is married with two children and a keen runner and walker in his spare time. He lives in the Ashbourne area.



Halinka Hepworth

Halinka Hepworth

Halinka Hepworth joined Radius Systems in December 2009 as Group HR Manager. She had previously spent over eight years in Derby with Celanese, the chemical manufacturer, as UK HR Manager.

Halinka is originally from London and graduated with a combined degree in Design, Technology and Film and Television. She worked for the BBC and for Eurostar before moving to Derby, where she currently lives with her husband and 12-year-old daughter.

Halinka's role is to manage the day-to-day HR issues across the Radius Systems Group, with its manufacturing plants in Derbyshire, County Durham and Northern Ireland. She will be working to improve learning and development across the company, and promoting best practice.

Retirements

Robin Freeman

Having recently celebrated 35 years with the company, Robin Freeman has since retired – although not entirely. He continues on a part-time consultancy basis, so we have not lost the benefit of his considerable expertise just yet!

Alan Dickinson

Dr Alan Dickinson has also retired after 22 years with the company. He trained as an apprentice and gained a PhD on the structure and properties of polyethylene (PE) pipes at what was then Manchester Polytechnic. He joined Pipeline Developments, a technology company supporting the water industry, moving on to the Engineering Research Station of British Gas in 1980, when it was the world leading centre for the science and technology associated with PE gas piping systems.

Alan headed up Development on joining us in 1988, later leading the Manufacturing functions. He expanded automation in the manufacture of electrofusion fittings. He also introduced more production capability for ProFuse and large diameter PE pipes. With many publications and patents to his name, Alan is well known and respected within the industry, as well as being well known for his 'ironic wit'. He is married to Sandy, and has two grown-up sons and two grandchildren.



Dr Alan Dickinson



Permanent Postings for Graduates

Philip Kosylo and Andrew Jenner have now been appointed to permanent roles within Radius Systems, after successfully coming through the first graduate scheme.

Andrew has taken up a role in the product development team. He is majoring on design and testing of some of our more challenging new products. Philip has joined the product management team. He is responsible for networking inside and outside our business to help drive innovation through our organisation and support adoption by our customers.



Chun-Ho Ong

Radius Technical Expertise Shared

Knowledge Transfer Partnerships (KTP) is Europe's leading programme helping businesses improve productivity and competitiveness. It aims to do this through better use of the knowledge, technology and skills that reside within the UK knowledge base.

Together with the University of Newcastle, Radius Systems carried out a KTP programme aimed at increasing understanding of the UltraFortis pipe system. As a direct result, graduate, Chun-Ho Ong, is now employed by Radius Systems.



Patrick Durnin

Graduate and Apprentice Expansion

Graduates Patrick Durnin and Chun-Ho Ong have begun working in our engineering sections. Patrick joins our graduate development scheme. His initial six-month placement is in our Hilcote manufacturing plant, to be followed by a spell in our Northern Ireland factories. Following his KTP programme at the University of Newcastle, Chun-Ho joined our product development team. He is focusing on pipe extrusion and materials technology, a key area of our business.

Along with our commitment to developing future talent, we have also recruited two further apprentices into our UPlus field services organisation. Carl Cook and Peter Gray join our teams in the North East of England. Both are already trained to GN02 standards and have their gas passports.

NEW PRODUCTS AND INNOVATION

17.5mm Kit for Domestic Service Lining Renewals

The 17.5mm system is a kit containing all the consumable items required to insert an existing diameter metal service pipe back into a domestic property. This avoids the need to resite gas meters or make alterations to internal pipework within the property. 17.5mm pipe was introduced as 16mm pipe generates very high resistance to gas flow. This resistance restricts its length to 2-3 metres. The new pipe is a bespoke diameter for the specific application of inserting existing service pipe into homes. It has a reduced wall section to increase pipe bore. Longer lengths can therefore be laid, making this a practical solution for installers.

Based on initial field evaluation, a factory formed pipe end was developed to make it easier to insert the pipe as traditional lengths. The second aspect of working with knowledge driven clients has been to limit the length of pipe provided in each kit. This means maximum installed lengths are adhered to in site works. These ensure service installations are correctly designed for low pressure loss at peak loading. All this led to a kit being provided with the consumable parts needed for a single installation in one bag, driving compliant site behaviour.



New ProFuse Gas Pipe Size

After the successful introduction of our new 440mm pipe size for 18" gas mains as detailed in our last issue, we have now launched a larger, 560mm size. Specifically designed for insertion into 24" nominal bore metallic mains, it provides an in-fill size. The pipe is available in SDR26 to maximise gas transport capacity, while also maintaining a full 2bar pressure rating needed for UK installations. Identifiable by its green stripes, this new insertion pipe is fully approved to GIS/PL2 along with the related fittings needed to build a complete installation:



560mm Electrofusion Coupler

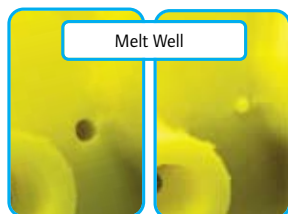
560 x 32mm Electrofusion Tapping Tee
560 x 63mm Electrofusion Tapping Tee630 x 560mm Pipped Reducer
560 x 500mm Pipped Reducer

Through our UPlus division we are able to offer installation partners assistance with pipe construction, insertion and/or maintenance if required. As part of our development, we have produced 560 x DN180 branch saddles, and also a flowstop solution for low pressure systems (up to 75 millibar) for use in planned or emergency situations. This provides confidence to customers specifying this new size.

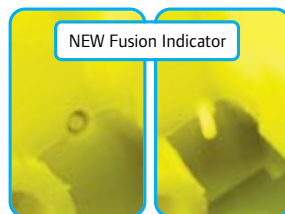
Electrofusion Portfolio Update

You will see a new pop-up fusion indicator on all our electrofusion fittings from April 2010.

- This will replace the current melt well indicator
- This change is in response to feedback from our major gas customers



Melt Well



NEW Fusion Indicator

Note: The fusion indicator should only be used to confirm that the electrofusion fitting has undergone a heating cycle. It should not be used as confirmation of a sound, leak-tight electrofusion joint. For information on our full product range visit:

www.radius-systems.com

UniDelta Compression Fittings



Now available through Radius Systems in the UK is a full range of UniDelta 16bar plastic mechanical compression fittings. These fittings are approved throughout Europe for drinking water, irrigation and other general purpose applications' to ground source heat pumps. They provide a quick and easy way to join service size polyethylene pipes. A full range of fittings is offered including couplers, elbows, tees and transition fittings to metal pipes. Available through our normal bulk supply arrangements to major framework and distributor partners, we have also made these available in smaller quantities through our new online shop. Visit us at: www.radius-systems.com and click on 'shop'.



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