

JUNE 2011

DOUNREAY NEWS



Three generations of Dounreay contractors say goodbye

Story on page 3

'Bank of Dounreay' closes its doors
– page 6

Calder's half century on site
– centre pages

PULL OUT
POSTER IN
THIS ISSUE

ON THE RECORD

by Simon Middlemas
DSRL Managing Director

Do you remember the year 2000? Dr Harold Shipman found guilty of mass murder, fuel protests across the UK and France crowned European as well as world champions at football.

Hard to believe it was 11 years ago.

The year 2000 also signaled the start of Dounreay's shutdown and the nuclear industry's exit from Caithness. The year when the first clean-up plan was published.

The next 11 years will pass as quickly as the last 11. I'm fairly confident the finishing post will be in sight for Dounreay come 2022, whoever wins the next parent body contract.

The industry – NDA, DSRL and our current parent body Babcock – know our exit has the potential to leave a huge hole in the local economy. So, too, does the community. It has a team working on the transition to new industry and business.

The industry has a role to play supporting that. We're stimulating inward investment and providing help to existing business. We're supporting the community to build up its capacity to move into the space we are vacating.

Last month I signed a charter with the NDA and Babcock to collaborate on the socio-economic agenda, an important step in harnessing our collective contribution.

A few days later I attended the launch of a new initiative by Caithness Chamber of Commerce to diversify the area's business base away from Dounreay. We've invested heavily in that, too.

We can provide support to business. But when Dounreay has gone, DSRL will exist no more so local businesses know they have to win non Dounreay work on their own merits. What's more, they can and are doing this already.

In the same way, we can provide support to our staff to help you transition, but we cannot do it for you. A sustainable Caithness is one that prospers without us. That is our objective. We can help you to make it happen in your own business or career. Talk to your line manager, talk to HR and sign up for the Plan-It programme. Eleven years isn't long. ○

Send your stories to the editor at:



sue.thompson@dounreay.com

Competition moves into final phase

Babcock Dounreay Partnership and Caithness Solutions bid teams had an extra day each on site in May 2011, visiting facilities on site and holding discussions with site personnel. A further one day visit by each bidder is expected in July.

DSRL will continue to supply documents requested by NDA. So far over 4500 files have been supplied since the start of informal site access in August 2010, and over 6000 files since provision of data started in May 2009.

It is expected that bidders will submit their final tenders in late August 2011 and the preferred bidder will be announced by NDA on 29 November 2011. It is expected that the successful bidder will be on site from December 2011 to start receiving handovers from the current parent body organisation (PBO) secondees, but will not take over until 30 March 2012.

It is important to note that during the handover period the

current PBO secondees remain in charge of their teams. Transfer of responsibility only occurs when the shares in DSRL are transferred from the current PBO to the new PBO.

A management of change document and transition plan have been prepared to allow the transition to a new PBO to take place between December 2011 and March 2012. As the transition will result in DSRL being owned by a different company, this is a high category change and requires the agreement of regulators and the NDA as well as DSRL internal agreements. The documents are expected to be submitted formally to the regulators in June 2011.

A number of rules for

competition were previously published and continue to apply – the rules and other information can be found in the intranet.

The DSRL competition support team contacts are **Mark Raffle** (Tel 6670) and **Rhona Gill** (Tel 6067) D2003 Zone 9, or email "dsrl competition support". Please get in touch if you have any questions.

To ensure that only work formally agreed with NDA is carried out, all requests for competition support should be routed through this team. Please let the team know if you are asked directly by NDA, bidders or anyone else to carry out any work connected with competition. ○

Posters show decom success

This month's edition of Dounreay News contains the first in a series of pull-out posters about progress to close down the site.

There will be a different one in each of the next few editions, covering safety, delivery and waste management.

They were developed in response to feedback from the Nuclear Decommissioning Authority, which thought the site should do more to talk up its achievements since 2005.

DSRL turned some of its complicated reporting measures into simple messages and matched these with relevant images, while JCL came up with a design.

The first in the series features a clean-up team wearing full PPE in the old research reactor reprocessing plant.

There's been more than

90,000 entries like this to clean out high hazard areas at Dounreay since the NDA took over the site in 2005.

Other posters in the series feature liquid metal destruction, accident rates and reactor dismantling. ○



Goats butt out after long service

DSRL's environmental team have said goodbye to an unusual supplier after more than ten years.

They have been using milk from **Celia McDougall's** herd of goats in Shebster for monitoring purposes since the late 1990s.

Every quarter, they take five litres of milk, which they sample as part of Dounreay's environmental monitoring programme required by SEPA.

This is a fair amount of milk for a goat to produce, and late last year Mrs McDougall became concerned that she could no longer guarantee that her ageing herd could produce sufficient amounts of milk to meet the site's needs.

Senior environment compliance officer **Angela Lockhart** takes up the story.

"We carry out monitoring to ensure that the local environment and the food chain are not being harmed by the discharges from Dounreay," she explained.

"We take samples from land and sea that have been agreed with SEPA. The samples are



brought to site where the chemistry support services team analyse them, and the results are reported to SEPA quarterly.

"When Mrs McDougall told us about the goats, we set about finding an alternative supplier, and

in future we will be obtaining cows' milk from a herd in Sibster. This has been agreed with SEPA.

"We will be sad to say goodbye to Mrs McDougall and her goats after so many years." ○



News in brief

JGC appointed sub-contractor for £7m lab project

Prefab specialist company Yorkon, the contractor awarded the £7m construction job of Dounreay's new radiological analysis laboratory, has nominated local firm JGC Engineering & Technical Services as its key specialist contractor.

JGC will design, manufacture and install the ventilation for the 1300square metre single-storey facility, which will be constructed as modules and assembled on site within the Fuel Cycle Area.

Subject to planning and other consents, construction is scheduled to start in March 2012 and take 18 months to complete, with the first analysis of radioactive samples expected in March 2014. The construction phase is expected to employ 40 people.

Interim report published on Fukushima lessons for UK nuclear industry

Mike Weightman, the UK's Chief Inspector of Nuclear Installations, has published his interim report on the implications and lessons learnt for the UK nuclear industry of the nuclear crisis in Japan.

The report identifies 25 recommended areas for review to see whether measures can be taken to further improve safety in the industry. They include reviews of the layout of UK power plants, emergency arrangements, risks associated with flooding, and dealing with prolonged loss of power supplies.

Secretary of State for Energy and Climate Change, **Chris Huhne**, requested a report from Mike Weightman after the earthquake and subsequent tsunami on March 11 which led to the events at Fukushima Dai-ichi.

The full report is due to be published in mid September.

New chairman for NIA

The Nuclear Industry Association (NIA) has announced that **Lord Hutton** will be taking over as chairman in mid-June.

He succeeds **Lord O'Neill** who is stepping down after three years in the role. Lord Hutton is familiar with the UK nuclear industry, as he was Secretary of State for energy at a time when new nuclear build became part of the UK government's policy.

The NIA is the trade association and representative voice of Britain's civil nuclear industry. It represents 250 companies, including operators of nuclear power stations and those engaged in decommissioning, waste management, nuclear liabilities management and all aspects of the nuclear fuel cycle. ○

News in brief

Nuclear Skills Academy appoints new chair

Magnox Ltd MD **Neil Baldwin** has been appointed the new chairman of the National Skills Academy for Nuclear.

He replaces **David Bonser** who had been in the post since its creation in 2008.

Jean Llewellyn, Chief Executive of the National Skills Academy for Nuclear said: "I am really pleased to announce Neil Baldwin as the new chair of the Skills Academy. He has been involved with the Skills Academy for a number of years and I look forward to working more closely with him on this important agenda.

Neil commented: "I am delighted to be able to take up the post of chairman. I believe that the Skills Academy plays a vital role in developing and maintaining a skilled workforce, which is essential to the future of the nuclear industry."

Neil has over 30 years experience in the nuclear industry, including running the high level waste and reprocessing plants at Sellafield, and more recently as managing director of the organisation responsible for managing the UK's Magnox reactor sites.

Rough seas halt particles clean up

Offshore clean-up contractor Land and Marine recovered 50 particles from the seabed before bad weather caused a suspension of its operation.

The company's platform, the 60m-long barge LM Constructor, has now been towed to shelter in Thurso Bay until the weather improves.

The latest phase of work offshore started on May 6 when a remotely-operated vehicle returned to the seabed to seek out high activity fragments.

DSRL set Land and Marine the task of covering a minimum of 16.5 hectares this year.

The company had completed a third of the area by Monday, May 16, when the decision was taken to stand down until operating conditions improved.

In a separate development, diving contractor Caldiver completed the annual inspection of the site's effluent diffuser on the seabed in May.

Nuvia constructs £3m de-scaling facility

Construction has started on a new treatment plant near Peterhead in Aberdeen to clean and recycle equipment from North Sea oil and gas operations affected by naturally occurring radioactive material.

It is being constructed by Nuvia SITA NORM Ltd, a joint venture company bringing together the nuclear industry experience of Nuvia Ltd with the recycling and waste management skills of SITA UK.

Over time the naturally occurring radioactive material forms a mineral scale on the inside of pipes and valves. Affected equipment will be cleaned using ultra high pressure water jets to remove the scale, which will be treated and encapsulated in cement. The waste will then be consigned to SITA's landfill site close by.

Nuvia SITA NORM Ltd director **Alan Gerrard** explained that the new facility would provide the oil and gas industry with a simple and safe way to dispose of naturally occurring radioactive material.

The plant is due to open for business in the autumn. ○

Knowledge sharing helps site shutdown progress

Leading the way in worldwide nuclear decommissioning means the NDA and DSRL can share knowledge and expertise with other site licence companies.

A technology exchange meeting was recently held with DSRL and Magnox personnel to discuss reactor pond decommissioning. Lessons learned and challenges experienced and overcome are shared across the NDA's estate to promote decommissioning efficiencies and help save time and money.

Despite the many similarities amongst reactor ponds there are also many differences in that no 'one-size fits all' technique for decommissioning is appropriate. The good practice of sharing information and knowledge and discussing technology applications is invaluable for unique decommissioning facilities like this.

In attendance was **Herb Cruickshank**, Magnox ponds technology lead and their ponds business manager **Roger Gorrod**. They met with members of DSRL's reactor decommissioning team **Mark Aitken, George Groat, Karen Gunn and Karl Shuler**. The beginning of the meeting was also attended by Office for Nuclear Regulation representative Peter Watson where a presentation was made of the DFR pond history and status. He then toured the project work site along with Roger Gorrod.



The focus of this latest meeting, which was the fourth of its kind, was on creating documents to support safe working conditions. Reviews of the DFR pond liner removal concepts were also discussed as the water removal and sludge capture are now nearing completion. In addition to discussing strategy and methods, there was an excellent dialogue on reducing radiological exposure to workers by using telemetry dosimetry, this technique is routinely used and has proven very successful at Dounreay.

Stuart Chalmers, NDA programme manager, said: 'The NDA continues to facilitate cross-

site licence company collaboration. This is an excellent example of inter-site working and sharing expertise to achieve an NDA strategic goal.'

Magnox holds regular pond decommissioning meetings, and it is planned for DSRL's Karen Gunn of the health physics team to attend future meetings. ○



'Atom Town' gets its first showing

A film about Dounreay had its premiere at the end of May in Edinburgh.

Artist and lecturer **Gair Dunlop** visited the site in February 2010 and took footage of the site and the local community to illustrate Dounreay's effect on Caithness. The film was supported by a grant from the Scottish Arts Council.

Gair Dunlop combined archive

and modern footage to link the past and present.

"Dounreay embodies many of the contradictions and lost possibilities of the Atomic Age. The sheer scale of it is amazing," explained Gair.

"This isn't a propaganda piece. I want people to see this and draw

their own conclusions about the place.

"Dounreay was an important and central part of many people's lives and it still is."

Now the 20 minute film is due to be shown locally at Caithness Horizons in Thurso on June 3, and in London on June 23. ○

New waste loading facility takes squeeze off projects

The site's new HHISO loading facility is now up and running. It's an agricultural-style steel building in the FCA near D2900 that was erected earlier this year.

Waste services unit facility manager **Willie Gunn** was involved in the design, construction and commissioning of the facility. J.Gunn & Sons were the main contractor, with Brian Hewitt Construction and Barnies as sub-contractors. Transport supervisor **Ricky Trueman** is responsible for its day to day operation.

The building holds two HHISO containers at a time, which allows the team to maximise the amount of waste put into them.

"Before this facility was built, the projects used to have to hold on to large items of low level waste until they had enough to fill a container," explained Willie.

Because the new facility accepts waste on a weekly basis, it prevents the projects clogging up valuable building space with large items of waste.

"We can put HHISO containers to a facility and they can partially fill it, and we'll then take it away and fill it up. We can also put it to WRACS for them to fill up any voidage with pucks," said Willie.

"We take anything that can't be size-reduced, such as ducting, glove boxes, that sort of thing."

"We usually schedule the collections and loading of bulk LLW for every Friday," said Ricky.

"This however is very flexible to suit each project's demand. If a project needs a collection more than once a week or is unsure of what service we can provide for them then they should feel free to get in touch with myself."

Once the containers are full to the brim they are transported to D3110 for storage until the new LLW vaults are ready to accept them. ○

The team are, from left: Ricky Trueman, Alan MacDonald, Willie Gunn, Stephen Tait, Norman Urquhart & Sandy Fraser. Missing from the photo is Nuvia surveyor, Andrew Manson



Site News in brief

- At the end of **April**, the site had recorded 323 days, or 3.10 million man-hours, without a lost time accident.
- An updated report was sent to the Office of Nuclear Regulation, detailing the risks to Dounreay in the event of a seismic event or tsunami.
- By the end of April, 37.12 tonnes of NaK had been processed by the NaK disposal plant since it began operating.
- In the PFR irradiated fuel cave, a number of cell windows were cleaned, improving visibility and minimising the need for remote camera viewing.
- PFR's sodium inventory disposal facility was shut down in April for planned maintenance.
- At PFR's old effluent treatment plant, sludge removal from the underground tanks was completed, and consigned as low level waste.
- Reassurance monitoring of Dunnet and Scrabster beaches was carried out during April. No particles were detected.
- In D2001, the breeder decladding machine was size-reduced and consigned as waste.
- WRACS resumed operations following replacement of the skirt.
- In the fuel recovery plant, preparations were underway for the decommissioning of a glass evaporator.
- Visitors to Dounreay during April include **Sir Bernard Hogan-Howe** of HM Inspectorate of Constabulary and **Phiroze Mehta**, Chairman of the IMechE. ○

'Bank of Dounreay' closes its doors

After 50 years on site, the RBS bank and cash machine shut for the last time at the end of April.

The bank first became part of the site on April 6, 1961, when it was the National Commercial Bank of Scotland Ltd, and the manager was **Mr A Murray**. An informal lease was agreed by **Donald Carmichael**, then the UKAEA general secretary who dealt with the Authority's tenancies.

Retired UKAEA worker **Derrick Milnes** started life at Dounreay in the wages office. He recalled that **John Laurie** was the cash officer for years.

"In the days when most workers were paid in cash, we used to go to various places around the site to pay people," he remembered.

"We would go and set up a little table in DFR, D1310, and go over the barrier into the D1209 corridor, and hand out pay packets. We would also go into Thurso to the building works department (BWD) office.

"Someone from the cash office used to go into Thurso to the bank every week with a police escort, to pick

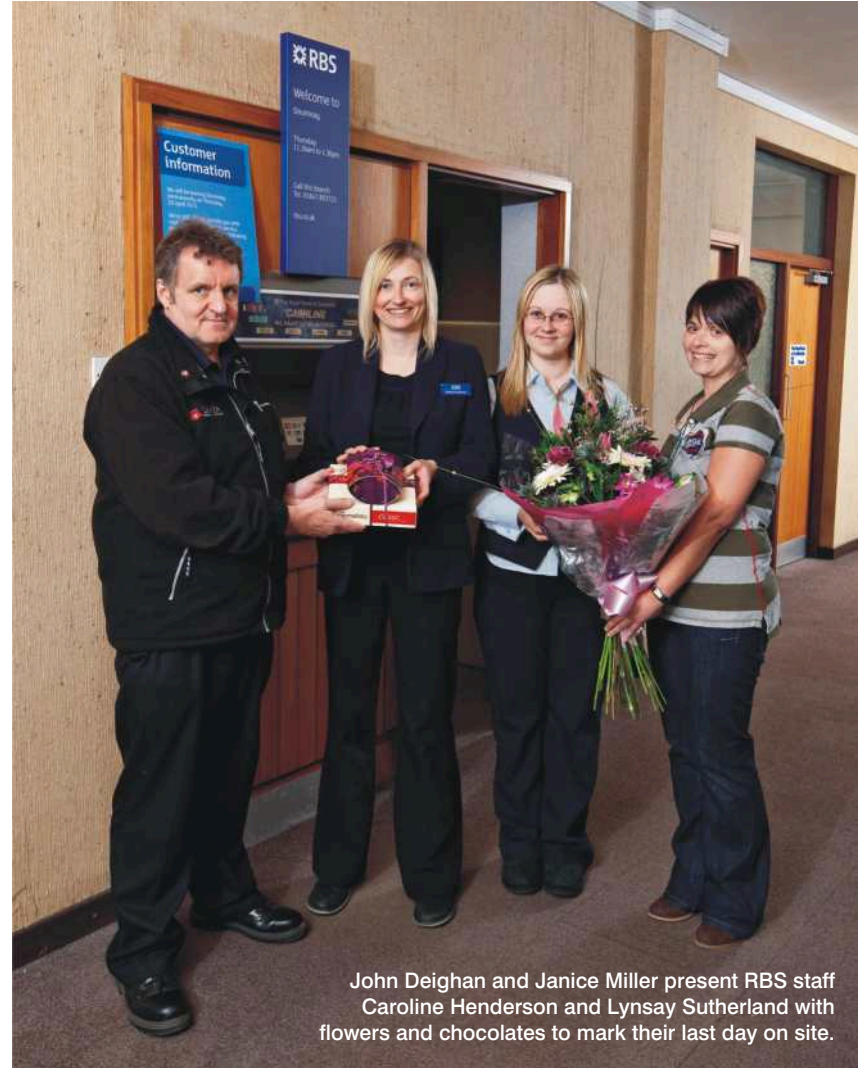
up the money.

"The cash office also dealt with the canteen money. People from the invoice and finance sections worked on a rota basis counting money and making up pay packets. It was a big job."

The bank was originally sited next to the hairdressers, further down the Welcome Break corridor.

In 1983, the bank moved premises to its final position next to the Welcome Break, and the highly-modern 'cashline' machine was installed.

In December 1982, the site director **Cliff Blumfield** wrote an internal memo stating that the improved banking facilities "may encourage more employees to opt for bank payment of wages and salaries instead of cash and this would have the approval of the finance and accounts department and could significantly reduce the work load in the cash office." ○



John Deighan and Janice Miller present RBS staff Caroline Henderson and Lynsay Sutherland with flowers and chocolates to mark their last day on site.

Apprentice scheme gets engineering approval

DSRL's apprenticeship scheme has been formally approved by the Institution of Engineering & Technology (IET) and the Institute of Mechanical Engineers (IMechE), with the IET commenting on its high standards.

Any apprentice going through DSRL's training programme (and those who have completed in the past three years) is now eligible to apply for professional registration as engineering technicians (EngTechs).

All apprentices become affiliate members of the professional bodies. Once they complete their apprenticeship and get their ticket, they can formally apply for membership.

Professional registration is an important milestone for any engineer or technologist, as it demonstrates professional competence.

Design office manager **Jared Fraser** said: "Membership of these professional bodies and the EngTech qualification is something that all young engineers should aspire to, and it will help in their development towards becoming an engineer." ○

IET Approved Scheme

Institution of
MECHANICAL ENGINEERS



Richard encouraged to aim at new jobs goal

Britain's nuclear clean-up boss came face-to-face with the industry's top striker when he visited Dounreay.

But NDA chief executive **Tony Fountain** wasn't looking for an industrial dispute – the striker in question was Highland League hotshot **Richard MacAdie**.

When he's not bursting the net for Wick Academy, Richard is bursting a gut for NDSL alongside club team-mate **Gary Manson** on a contract to clean out and dismantle the D1251 complex beside DMTR.

His skills at nuclear clean-up are every bit as impressive as those in the black and white shirt of Wick Academy, where he is the club's all-time top goal-scorer.

D1251 project engineer and club secretary **Alan Farquhar** reckons Richard is a quality player that every team in the Scottish Highland Football League would love to have in their side.

"It's a crying shame he hasn't had the opportunity to show case his talents at a higher level as yet as he certainly has the potential to make a career out of football, however time is running out if he is to achieve that dream."

Tony Fountain dropped into the D1251 complex where Richard, Gary and Alan work after signing an

agreement with Babcock and DSRL to support a regeneration plan for the local economy.

The NDA chief says knocking down the site safely is his priority. Part of that is helping workers like Richard identify skills they can use in future when the time comes to move on.

The "socio economics partnering charter" will see the nuclear industry bodies working together to pave the way for their exit from Caithness.

Last year the NDA pledged £4 million to help local business growth. And it is putting £1.1m towards an initiative by Caithness Chamber of

Commerce to help companies develop new markets.

DSRL managing director **Simon Middlemas** said: "This is the nuclear industry coming together as one to knock down this site in a way that helps the community to rebuild for the future."

Trade unions and development bodies have backed the charter. Local MP **John Thurso** said: "It's vital that the decommissioning spend helps the local economy make the transition to new jobs and businesses. This is an important step towards that goal which I warmly welcome." ○



NDA chief executive Tony Fountain, left, inside a redundant fuel store and waste handling plant where NDSL's Richard MacAdie is one of the team getting the plant ready to be demolished in 2013, taking the total number of facilities cleared so far at Dounreay to almost 200.



NDA chief executive Tony Fountain talks to Richard Knight of Nuvia, one of the companies decommissioning the redundant fuel store and waste-handling facility.

These are some of the projects in Caithness and north Sutherland that the NDA are supporting

- £2m to Scrabster Harbour phase 1 development
- £143.5k to Caithness Chamber of Commerce business support programme
- £809k to Caithness Chamber of Commerce 'Make the Right Connections' programme
- £200k to Pulteneytown Peoples Project community & enterprise centre
- £150k to Wick Harbour Authority for feasibility studies
- £60k to Royal National Mod Caithness 2010
- £2m to North Highland College Engineering Skills Centre build
- A total of £4m over the next 10 years to the community benefit fund associated with LLW facility

DSRL on behalf of the NDA has provided over £0.3M in part-funding to support a number of projects in support of the CNSRP programme, including:

- recruitment of a suitably qualified person to take forward work for the marine renewable industry
- development of science, technology, engineering and mathematics (STEM) in Caithness and North Sutherland schools
- operational costs for Caithness Horizons
- CNSRP Programme Manager post
- secondment of a member of staff to the National Skills Academy, Nuclear (North of Scotland)

Babcock, the current PBO, has seconded **Simon Coles** to HIE part time to assist with inward investment.

Calder clocks up half century of work

Dounreay worker Calder Bain has created history after clocking up an unbroken 50 year stint working on the site, writes local journalist Iain Grant.

The remarkable milestone was recognised at a presentation when DSRL managing director **Simon Middlemas** and colleagues reflected on his eventful career.

Though now a year past his official retirement date, the kenspeckle engineer continues to work three days a week in the site's design office.

For him, work on solving the many challenging technical problems created by decommissioning the defunct fast reactor complex has become a passion.

The wealth of expertise and knowledge he has built up is also invaluable to site licence company DSRL.

He has acquired a reputation for designing ingenious, remote-control devices that can operate in dark, highly radioactive recesses of Dounreay's prototype fast reactor.

Reflecting on his marathon spell at the plant, he recalls previewing his career in the pages of the then-popular comic, the Eagle.

He said: "I would have been about 10 when I sent a photo and wrote that when I leave school, I wanted to become an engineer at Dounreay.

"It got published and my wish ended up coming true."

A month short of his sixteenth birthday, he successfully applied for one of the 30 apprenticeships which were then offered every year.

His five year course in mechanical engineering gave him an excellent grounding for his career.

He said: "When I joined the plant in 1961, there was a real pioneering spirit about the place.

"Fast reactors were an unknown quantity and we had top scientists from all over the country

coming to work here."

There were then four fully tooled-up workshops on site, all abuzz with activity – compared to just one now.

The teenager soon made an impact, winning a cup for a toolbox which he made at the apprentice training school.

Under the expert supervision of Will Sutherland, he and the other apprentices were given six months in each of the main plants to give them a good overview of Dounreay's working.

After serving his time, he worked for a spell making precision rigs used to carry out experiments at DFR.

In 1973, he changed from being a fitter-turner to a draughtsman, signalling the start of a 23 year stint in the design office, broken only by a short spell as project engineer at the small water leak rig.

Calder went on to work in the fuel fabrication plant, where he became assistant plant manager.

By then, the then Conservative Energy Minister **Cecil Parkinson** had sounded the deathknell for the UK's fast reactor programme.

Calder and his colleagues at the fabrication plant had the distinction of working in the last



"Working on a plant focusing on decommissioning and waste management took a bit of getting used to, but I think people have now adapted well to the new scenario."

Calder clocks up half century of work



part of the site to operate.

Its closure in 2004 following the dispatch of elements to fuel a Belgian reactor led to his return to the design office as a senior design engineer.

He has since been largely focused on the PFR.

Calder acknowledges that the second half of the 1990s and early 2000s marked a low point for the site.

"There was a tremendous amount of uncertainty about what was going to happen," he recalled.

"We weren't even sure they were serious about decommissioning."

Calder said the task of cleaning up the three reactors and associated plants and laboratories should never be under-estimated.

"No-one had ever taken apart

reactors of the complexity of Dounreay's.

"The later reactors that were built elsewhere were all designed with decommissioning in mind.

"None of the MTR (the Material Test Reactor), DFR and PFR were designed to be decommissioned."

Calder has developed a reputation for coming up with bespoke, remote-control gadgets that are able to work in the hostile environment of a reactor.

He attracted headlines for his design in 2005 of 'the Slinky', a device which resembled the popular toy.

Based on a compression spring, it was able to negotiate round tight bends in PFR's pipework and was fitted with a spike to help drain away

remaining pockets of sodium coolant.

He also devised a remotely-operated camera which was deployed to scan inside the pipework and which also had gamma probes to gauge radiation levels.

Like other long-serving Dounreay staff, Calder found it difficult to make the change from working at an operational reactor.

"Working on a plant focusing on decommissioning and waste management took a bit of getting used to, but I think people have now adapted well to the new scenario."

The site, he said, has been good for Caithness and continues to play a very important part in its economy.

Since his 65th birthday last year, Calder has been on a three day working week, which has suited him very well.

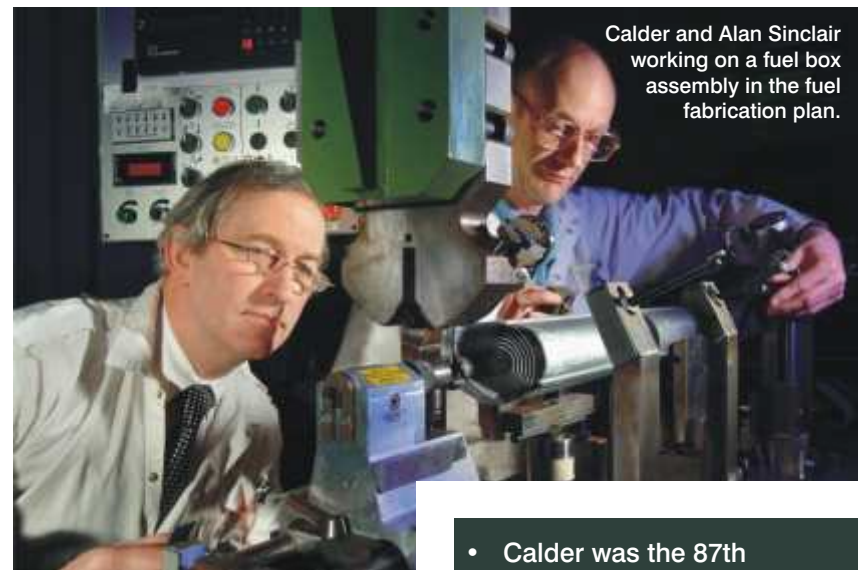
His employers are delighted he has stayed on, given the shortage of design engineers who have a full working knowledge of the reactors.

Calder has become the first Dounreay employee to be asked to remain working after 65.

Born in Rosyth, he came to Thurso as a baby and attended school in Halkirk and Thurso.

He built the home at Bridge of Westfield where he and his wife **Irene** have lived since 1976.

The couple have two daughters, **Laura**, a health physics worker at Dounreay, and **Lindsey**, and four grandchildren. ○



Calder and Alan Sinclair working on a fuel box assembly in the fuel fabrication plant.



- Calder was the 87th apprentice to sign on at Dounreay
- His first pay was £2, 18 shillings and six pence
- He restores vintage motorbikes in his spare time
- He also builds model aircraft, including a seaplane which he flies on lochs
- He and wife Irene recently celebrated their Ruby wedding anniversary.

"Working on a plant focusing on decommissioning and waste management took a bit of getting used to, but I think people have now adapted well to the new scenario."

Trainers involved in LAW day

Learning at Work Day 2011 took place on Thursday May 19.

This year, members of the training team, North Highland College, Open University and the Union Learning Reps had a stand in the Technology & Innovation exhibition.

Andrew Clarke and **Sharon Rosie** from Training at Naver were on the stand and described the day as "busy".

Andrew added: "We met lots of people and answered many queries, as well as taking pre-bookings for a variety of courses."

"I find it rewarding talking to all the people who come along and being able to help them with their training needs."

Sharon commented that she had been able to assist people who were uncertain what sort of training was available for them, by booking them onto the 'Windmills' course.

"The overall response was positive from all who took time out to come and discuss their needs," she said. ○



Training at Naver

To arrange your training please check the training event calendar and SAP for dates, or call us at Naver on 01847 804735. ○

June	Course Title	Venue
1	Basic radiological induction	Dounreay
1	Confined space operator	Dounreay
1	Overhead crane refresher (DCP)	Ormlie
2-3	Alkali metals handling	Dounreay
3	Emergency first aid	Dounreay
6	Forward control point liaison officer	Dounreay
6	Fall protection	Ormlie
7	DMR	Dounreay
7	Site induction	Dounreay
7	C&G Design exam	Naver
8	Risk assessment and specialist advice	Dounreay
8	Safe systems of work upgrade	Dounreay
8	RMC	Dounreay
9	Safe systems of work upgrade	Dounreay
9	C&G theory exam	Naver
13-16	Counterbalance novice (apprentices)	Ormlie
14	Site induction	Dounreay
14	DMR	Dounreay
14	Safety case production	Naver
14	ILM	Naver
15	Safety case writer	Naver
15	MBT event	Naver
16	Supervisory skills	Naver
17	Emergency first aid	Dounreay
17	ATO holder	Naver
20	Forward control point liaison officer	Dounreay
20	MEWP (boom)	Ormlie
20-24	IOSH managing safely	Naver
20-23	Microshield training	Dounreay
21	MEWP (scissors)	Ormlie
21	Site induction	Dounreay
21-22	Windmills Workshop	Naver
22	Overhead crane refresher	Ormlie
24	Emergency first aid	Dounreay
27-28	Business Gateway – business start-up	Naver
27-30	Telehandler novice	Ormlie
28	Site induction	Dounreay
28-29	Hazardous substance advisor	Naver
29	Basic radiological induction	Dounreay
30	Radiation worker	Naver
31-1 July	Alkali metals handling course	Dounreay

Binary Puzzle

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Fill the grid so that every square contains either a 0 or a 1, and in such a way that each row and column contains an equal number of 0's and 1's. In each row or column a 0 or 1 may not occur in more than two consecutive cells. The sequence of 0's and 1's in each row is unique, as is each that in each column. ○

Answers in next months issue

+ OHD BULLETIN +

Healthy working in offices

Whether you work in a small or in a large open plan office, there are some things to consider when it comes to improving your health, says OHD's **Miriam Sutherland**

Environmental conditions such as noise and acoustics; lighting and indoor climate affect us differently.

If we are busy we forget to move and can stiffen up.

Remember that your calf muscles act as accessory heart muscles so walking and breathing deeply are vital for our health.

Change posture, stretch and walk regularly. Give your brain a "stretch" too and take a break!

If you mute your e-mail alarm you can choose when to look at messages and not be distracted by incoming mail.

Use your electronic diary. It's your diary – book your time for tasks you have to complete. Prioritise your workload and communicate with your

setting that reinforces the behavioural practices already inherent in the workplace culture. Increased knowledge sharing and increased stress or noise, for example, are not solely determined by the physical work arrangement.

Noise

The definition of noise is "a sound that is loud, unpleasant, unexpected, or undesired".

You may think that it's ok to leave your phone ringing or to speak to your team in the open forum.

Spare a thought for anyone nearby who has to concentrate on their work. Some voices carry more than others and can cause irritation to others.

Respect the shared space you



or dealing with certain people drain you faster than your normal work?

We all have things we don't like to do and personalities that challenge us. Once you recognise what these are for you, be deliberate about how you deal with them.

Find a good time of the day, when you are not too tired or easily irritated. Then set aside a short period of time to tackle these tasks, or call these people.

Afterward, take a break, drink some water and restore your focus before moving on with your day. If necessary, come back to finish the task a little later in the day.

Maintain good posture

Slouching or sitting in an awkward position requires extra work by the major muscle groups in your back and arms, draining you of energy and momentum.

Instead, strive to maintain a neutral typing posture where your muscles are at their lowest strain and even relaxed.

Keep checking your mouse is as close to you as possible. Also, make sure your back is well supported. ○

Environment

- Water and maintain office plants properly. They help to humidify the area.
- Dispose of rubbish promptly and properly.
- Store food properly. Food attracts pests. Some foods, if left out, can spoil and generate unpleasant odours. Never store perishable food products in your desk or on shelves.
- Avoid bringing products into the building that could release harmful or bothersome odours or contaminants.
- Clean your keyboard and mouse regularly. Like your steering wheel, they can harbour more germs than your loo.



management/staff to reduce peaks and troughs.

Open plan working

Increased cognitive demands, management style and lack of privacy can be a challenge in open plan offices.

Researchers point out that the open-plan office itself does not necessarily cause changes in the psychosocial work environment. Rather, it seems to function as a

occupy and modify your language and behaviour. You represent your company at work

Get up and speak quietly to a colleague rather than shout across the office. Book meeting rooms for your team chats and set up an answer machine for phone messages

Be aware of your energy-draining tasks

Do you find that certain tasks

Town centre boost from Scrabster cruise ships

Highland Councillors this week welcomed the early boost to the county's tourist season provided by the first cruise ships to visit Scrabster in what will be the busiest season yet.

Warm, sunny weather helped the visits of the Ocean Countess and the Quest bring hundreds of passengers to key sites in the county, and the Council-funded shuttle bus service between Scrabster and Thurso town centre was in heavy demand.

Scrabster Harbour Trust's harbour master **Gordon Mackenzie** said the value of the shuttle bus was proven almost immediately.

"The visit of the Ocean Countess on April 21 was our first of the season, and the ship carried over 650 passengers.

"We estimate that around 400 of those passengers made use of the shuttle bus service during the day to come into Thurso, with the remainder taking advantage of mini tours to sites such as the Castle of

Mey.

"The shuttle buses were running at virtually full capacity throughout the day, and with a total of 11 visiting ships during 2011 I hope local businesses continue to see a benefit from that."

Highland Councillor **John Rosie** commented: "Local members have been keen to support the development of the cruise ship market at Scrabster over the past five years or more – we identified it as a positive way for Council to support the development of the area's tourism industry as Caithness and North Sutherland goes through an economic transition process. It's very heartening to see the shuttle buses being so heavily used."

Alan Steven, Caithness Chamber of Commerce's newly-

appointed Town Centre Development Officer also welcomed the influx of visitors.

"The county has certainly enjoyed a good start to the tourist season," he said.

"The Coldwater Classic surfing event in April and the "Wave North" mini-festival organised around it show that we can all pull together to make our town centres attractive places for both visitors and locals alike. Working with businesses in both Wick and Thurso, my aim is to create further opportunities like this."

CNSRP programme manager **Eann Sinclair** hailed the spirit of partnership working that lay behind the progress being made.

"We often criticise ourselves for not responding well enough to

opportunities, so I think local businesses and agencies deserve enormous credit for this type of joined-up working. Scrabster Harbour Trust's foresight in pursuing the opportunities for cruise ship business has really begun to bear fruit" ○



Photo ©2011 Jamie Buchanan (Heilan Light)

North companies take to global stage at All-Energy

As *Dounreay News* went to press a number of ambitious Caithness companies were heading to Aberdeen to target new business at the UK's largest renewable energy event.

The All-Energy exhibition and conference this year has attracted over 500 exhibitors from 20 countries across the world. It is a key event for Caithness and Sutherland businesses seeking opportunities in manufacturing or supply for wind, wave, tidal, hydro and biomass technologies.

Caithness Chamber of Commerce is taking a number of local companies on its stand, under the banner of its "Invest Caithness" initiative, a partnership project funded by HIE and the NDA.

Chamber Chief Executive **Trudy Morris** said: "This is one of the most important events of the calendar for Caithness Chamber members. Our stand has been very busy over the past two years, and we expect attendance to be even greater this year.

"Our Invest Caithness brand gives us the opportunity to promote and raise awareness of the key assets and capabilities of the area.

We will be sharing the space with local companies such as EnergyHunt, Mowat Technical Design Services, Caledonia Green Innovation, Scrabster Harbour Trust, Ignis Energy, Wick Harbour Authority and New Park Ltd as well as carrying information on a range of other local businesses.

"We will also be promoting our new "Make The Right Connections" skills programme which has been funded by the European Social Fund, NDA, DSRL and Skills Development Scotland (SDS). This programme aims to redefine the skills of the local area, match them to the requirements of the emergent sectors, assist in addressing the skills gap and train for the future.

"We firmly believe Caithness and north Sutherland has much to offer and benefit the global energy market."

A number of local companies will be taking their own exhibition space. These include the

Environmental Research Centre with the University of the Highlands & Islands and Scrabster with the Port Services Group.

EnergyHunt's founder and director, **Richard Hunt** said: "We are currently winning energy contracts in the north and elsewhere through

new and repeat business with utilities, technology developers and in offering project support for larger consultancies from outwith the area. We see All-Energy as an opportunity to promote our services, skills and experience and to bring added commerce to the area." ○



Richard Hunt

Dounreay hosts nuclear trade event

Scotland's largest technology exhibition came to Dounreay for the tenth year.

More than 40 companies interested in carrying out work for Dounreay exhibited in the marquee next to the main gates.

The exhibition was organised by Nu-Tech Associates and sponsored by DSRL and CoreCut. Dounreay News spoke to some of the exhibitors:

SMD Robotics

...specialist in the design and manufacture of ROVs and have just won a Queens Award for Enterprise for their work.

Brammer

... have recently opened a new office in Inverness. They supply mechanical parts such as bearing, clutches and couplings.

Sperian Protection Clothing

...are an international company providing protective equipment for hazardous areas. Their representative traveled from France to be at the exhibition.

PacTec

...describe their soft sided packaging as a new concept to the nuclear industry, which has really taken off. They are currently supplying their products to Flotta in Orkney.

Mirion

...source 90 per cent of their business from the nuclear industry. Their radiation tolerant imaging systems can be found in DCP, the FCA and the reactors. They have been supplying Dounreay since the late 1970s.

BD Nuclear

...specialise in diamond wire cutting and first worked on site in PFR, size-reducing heat exchanger tube bundles. They work solely for the nuclear industry.

Kongsberg

...are a local company based in Wick. They claim that their innovative 3-d camera can help to cut down manipulator task times by up to 50%. Their cameras are already used in the FCA.

Custom Composites

...manufacture carbon and glass fibre tubes. They mainly supply the electrical industry but have recently broken into the nuclear industry, and are exhibiting at Dounreay for the first time.

CoreCut

...are diamond wire cutting specialists. They size-reduced the old DFR stack in 2010, and have been involved in core samples for facilities such as DMTR and D8550.

MacGregor Industrial Supplies

...are based in Inverness. Their representative was demonstrating the qualities of a unique sealant and construction adhesive. This is their fifth year at the exhibition.

Nuclear Technologies

...provide a scientific and engineering consultancy service mainly to the UK nuclear industry, and have offices all over the country. They have worked on site in a number of areas.

BOC

...are exhibiting for the first time this year. They produce speciality gases and equipment which are used all over the site.

NIS

...have returned to the exhibition after a short break. They provide bespoke design manufacture of equipment, and 70 per cent of their business comes from the nuclear industry. They also produce equipment for the food industry, such as ovens that crisp cereal and bake crustless bread.

Wozair

...read *Dounreay News* every month to see what's happening on site. They are ventilation specialists who were involved with JGC in the FCA ventilation project. ○



OFF THE RECORD

by Rob Gibson

MSP for Caithness, Sutherland and Easter Ross

The huge task of decommissioning Dounreay costs over £150 million per year. In contrast the Fossil Fuel Levy raised from Scottish sources amounts to £194 million and is locked in a Treasury-controlled vault in London. Even its release could kick off the new Scottish renewables revolution with profound effects for the Pentland Firth.

Scotland faces competition for cutting edge renewable work from London government intent on setting up an energy hub in NE England.

The so-called British energy market has failed to give any Scottish power source a level playing field for grid access.

The UK and Europe nuclear, coal, gas and renewables all play a part. Why should the Far North ignore our natural strengths to make new jobs here?

Science tells us that electrons are the same no matter the source of production. Common sense tells us that the power of wind, waves and tides give us a huge advantage on the NW edge of the continent.

That's why the SNP Government is working with partners to build huge overland and under-sea grids to contribute to European energy security. We also back carbon capture for thermal power stations.

When **Cecil Parkinson** pulled the plug on fast breeder research at Dounreay the long process of decommissioning began. Since then a whole new horizon of electricity needs and climate change imperatives have opened up new opportunities.

Don't forget nuclear production and decommissioning is hugely subsidised by tax payers. To deny this is naive.

We all pay through our power bills for private investment in renewables. Our taxes provide subsidies to get them moving. Meanwhile we pay huge sums every day for safe working and dismantling of nuclear stations.

Today the NDA, HIE and the Scottish Government are working to launch marine renewables and the Dounreay to Beaulieu power line upgrade and Beaulieu to Denny super grid have been consented and developed.

Looking to the United States, we see an example of a nuclear decommissioning agency with real power to create sustainable, post-nuclear job security. That's the kind of sensible action we need here in Caithness.

We must see more of an emphasis on community benefit from the NDA. Looking to the re-industrialisation of Caithness and North Sutherland, the positive social impact of new renewables projects must be taken into account. We need this new thinking, and it's an approach backed by the new majority SNP Government.

I hope Dounreay will provide many of the skills it needs. Certainly sub contractors and many new firms are sniffing the air and see new opportunities like the imminent Scrabster Harbour development which signals the green light.

On a personal note, I'd like to take this opportunity to thank everyone who took part in the recent election here. I am confident that over the next five years, we can work together to make the North better. ○

“Quotable Quotes”

“With the sending of radiation monitoring and protection equipment to Japan, the workers at Dounreay have given the politicians a lead...Dounreay could be part of that [green vision] as a world leader in decommissioning and decontaminating nuclear sites and helping to rid the world of a dangerous and expensive way of generating electricity.”

Dr Eleanor Scott, Scottish Green Party, on the 25th anniversary of the Chernobyl nuclear disaster (Caithness Courier)

“Once they realised I wasn't putting myself forward as some sort of cheerleader for the anti-nuclear industry lobby, they were very helpful. It's been fascinating to watch a big, new technology take root in a rural, outlying community and then start to disappear.”

Artist and lecturer Gair Dunlop on his film of Dounreay, 'Atom Town' (Press & Journal)

“But we are not complacent. No matter what the differences are, and how high the standard of design and subsequent operation of the nuclear facilities here in the UK, the quest for improvement must never stop. Seeking to learn from events, and from new knowledge, both nationally and internationally, must continue to be a fundamental feature of the safety culture of the UK nuclear industry.”

Mike Weightman, executive head of the Office for Nuclear Regulation, releasing his interim report on the implications for the UK nuclear industry of the nuclear crisis in Japan (HSE website)

“This is the sixth reactor we'll have cocooned at Hanford and certainly the largest by far.”

Cameron Hardy, Department of Energy, talking about the long-term storage of Hanford's N Reactor (Tri-City Herald)

“Very simply put, all of these options have very significant costs. The option with least cost and the most beneficial to Cumbria is the creation of a new Mox plant, which would create 5,000 jobs during construction and secure 1,000 jobs on site at the moment.”

Cumbria County Councillor Tim Knowles, who is backing the construction of a new Mox plant at Sellafield (News & Star)

To see these and more visit the communications homepage at: <http://dnotes6.ukaea.org.uk/dsrl/external-headlines.asp>

Mick shows off his assets

Mick Jones is DSRL's asset management representative. Dounreay News caught up with him to find out what's its all about.



Mick Jones (left) inspecting the D1313 Workshops with Ali Mackay, JCL Building Services manager

What is asset management?

“You have a car. You have paid a lot of money for it and its essential for getting you to work and for your way of life generally. Naturally, you want to get the best out of it, so you wash it regularly, service and MOT it, put new tyres on it and get any dents or mechanical niggles sorted out as they occur. In return, your car runs smoothly and gives you years of (hopefully) trouble-free motoring.”

“That is the basics of asset management – looking after the company's property and making sure it is properly maintained.”

Why is asset management important?

“The assets of the site amount to many millions of pounds, and they all belong to the NDA. DSRL has a duty, as a contractor to the NDA, to look after the assets and get the best out of them.”

“The NDA have encouraged all their SLCs to adopt an asset management structure that covers the entire life cycle of an asset, from its purchase, through its life and to the point of its disposal.”

“Some pieces of equipment are covered under safety or environmental regulations. For example, an air sampler on a ventilation stack will be required by the environmental regulations and

must be kept operational at all times.”

How does it benefit DSRL?

“As the site is progressively decommissioned, safety, hazard reduction and environmental compliance are extremely important. Likewise, being able to demonstrate proper management of the site's assets to the NDA is important to DSRL.”

“All compliance and business-dependent assets in each plant are recorded on MAINSAVER, a computerised maintenance management system. MAINSAVER allows the scheduling and recording of routine maintenance, inspection and testing. It also allows DSRL to demonstrate that it is complying with the regulations.”

What do I do each day?

“My day job is three-fold and I am continually juggling hats.”

“My main role is the principal engineer maintenance authority reporting to the assurance director on regulatory compliance of License Conditions for maintenance arrangements and liaising across site with the maintenance managers.”

“I have a team of very experienced and knowledgeable senior advisors who assist and advise project/system engineers in

achieving their individual goals and subsequently, the overall objectives of the company.”

“I am also a senior legionella advisor for the site and in conjunction with Johnson Controls have set up quarterly inspection reviews of building water systems and associated plant to identify how DSRL maintains and inspects systems for the contamination of legionella.”

“My third role is the asset management representative, reporting to senior management and the NDA, on how DSRL implements its asset management policy and strategy to achieve the company's objectives and the life time plan. Its a challenging role and one which is being continually audited by the NDA and encouraged by our management team.”

“I joined Dounreay when I left school in 1984, as an apprentice fitter/turner but left to join the Royal Navy as a weapons engineer. After 16 years of undetected crime, I left the Navy to join the railways as a reliability engineer on diesel and electric locomotives and rolling stock. I moved back home in 2008 and much prefer the commute from Armadale to Dounreay than the M1 and M25.”

TOPIC OF THE MONTH

Work Equipment



by Stuart Hamilton, Senior Mechanical Engineer

The term “work equipment” covers the vast majority of the equipment used in our daily activities at Dounreay and includes hand tools, power tools, mobile plant, lifting equipment, access equipment and machines or process plant that have an operator interface.

What regulations apply?

Safety of work equipment is regulated by two major sets of UK Regulations – the Provision and Use of Work Equipment Regulations (PUWER) and the Supply of Machinery (Safety) Regulations (SMSR).

These regulations apply to all aspects of procuring, installing, using, maintaining and decommissioning work equipment and machinery. They place specific responsibilities on personnel involved at all stages of the complete life cycle of an item of work equipment or machinery – including the user.

What do we have to do to comply?

To comply with the law we must collectively manage the risks and hazards associated with work equipment for the entire life cycle of the equipment.

This involves preparing comprehensive performance/design specifications and technical assessments, ensuring users are properly trained and equipment is maintained in a safe and efficient condition. When you buy new work equipment you must ensure that it complies with the requirements of the regulations and any EU Directives relevant to the equipment. Compliant equipment will bear a CE mark and will be supplied with an EC declaration of conformity.

However, the CE mark alone does not mean that the work equipment is safe or suitable for a specific use, so an assessment must be carried out and appropriate specifications prepared to ensure the equipment is fit for its intended purpose.

Work equipment should, wherever possible, be bought from approved suppliers that have a proven track record of supplying good quality, value for money products in accordance with PUWER and SMSR. Speak to your local contracts officer for information on approved suppliers.

Design and maintenance of work equipment

Technical demands and cost constraints of Dounreay's decommissioning programme often require design and project engineers to design bespoke equipment and tools or modify proprietary equipment to suit the task or enable deployment in high radiation or hostile environments.

In such cases the unit/project senior engineer will take on the role of “responsible person” as defined in the SMSR and must ensure that the equipment meets all of the relevant essential health and safety requirements of the SMSR and draw up the technical file and issue the EC declaration of conformity.

Maintenance of work equipment is also a requirement of PUWER and the SMSR.

Work equipment and machinery must be designed, manufactured and installed in such a way that maintenance can be carried out safely. The equipment must be capable of being shut down or isolated from all potentially hazardous energy sources to allow maintenance to be carried out safely.

Once installed, or put into service, work equipment must be adequately maintained so that it remains safe to use. All items of work equipment – no matter how basic – must be included on a maintenance schedule.

Users of work equipment have a vital role to play in the maintenance of the equipment by being vigilant to defects and by carrying out routine pre-use inspection and minor servicing tasks such as lubrication or cleaning. ○



Nuclear news

High radiation levels in damaged Fukushima reactor

Radiation levels of up to 1,120 mSv per hour have been detected in Japan's damaged nuclear reactors at Fukushima.

Robots probing the pump room in Unit 1 took photographs of the area in preparation for TEPCO's attempt to flood the reactor containment vessel with water. But the high levels are hampering the work to bring the crisis under control.

In the meantime, many schools near the stricken nuclear plant remain closed, with up to 12,000 children affected. Some of the schools have been able to re-site outside the off-limit zones.

In Koriyama, a city in the Fukushima prefecture, workers began removing topsoil from playgrounds in those primary and nursery schools where radiation levels had been measured at over 3.8 mSv per hour. The removed soil was disposed of in landfill sites.

(The Mainichi Daily News)

Tornadoes knock nuclear plant out of action

Severe storms in the US state of Tennessee have destroyed power lines and put the Browns Ferry nuclear plant out of action, reported a Tennessee Valley Authority (TVA) spokesman. The plant and its three reactors shut down safely following the tornadoes, but is having to rely on its back-up diesel generators for the power needed for cooling the reactors and fuel ponds. The TVA spokesman confirmed that at no time was the plant or the public in any danger, and the reactor will remain shut down until the power lines are restored.

(The Tennessean)

Germany to move away from nuclear power

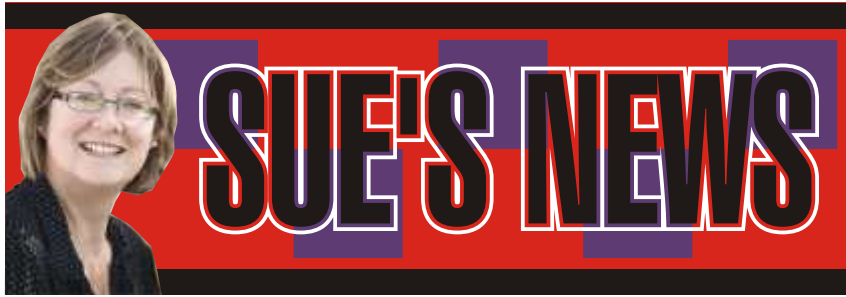
Germany's environment minister Norbert Roettgen declared that there was no immediate need to shut down the country's nuclear reactors for safety reasons, even though they are not fully protected against all risks.

But he made it clear that the German government intends to stick to its decision to phase out nuclear technology.

“It remains the case that we should find a way to exit nuclear energy as soon as is sensible,” he said.

The government will now take decisions on how to proceed with the phase out of the technology.

(www.boston.com) ○



In May, Dounreay said goodbye to **Kevin Macleod**, who left to work for AMEC in Aberdeen and **Willie harper** after 31 years on shift.

Calling all bikers – are you interested in getting involved in a Dounreay to Dungeness bike ride to raise money for the Japanese Red Cross Tsunami appeal?

The ride is scheduled for early September, and the plan is to carry out the ride in stages. The first stage would be from Dounreay to Hunterston, on Friday September 9, a distance of approximately 300 miles.

If you would be interested in being involved in this worthwhile event, please contact **Claire Crawford** in the first instance to register your interest. You will need to book annual leave to cover your absence from work, and raise sponsorship.

Dounreay Communities Fund recently sponsored Lybster Junior Football Club with new strips. Some of the children are pictured in their new strips with coach **Adreain Gill**.



The committee of the Caithness branch of the Multiple Sclerosis Society is looking for willing volunteers to help them develop the support and services they offer to local people affected by MS. There are lots of ways that volunteers can help, such as fund-raising, organising events, editing their newsletter and website, and generally volunteering to support events and weekly therapy sessions.

If you're interested in getting involved, or would like more information, please get in touch with **Paula MacGillivray** on 07590 965 465 or e-mail her on: pmacgillivray@mssociety.org.uk

Congratulations to the unofficial Dounreay poet **Bryan Dods** who married **Ann** on May 14. He is also celebrating his promotion to Army Cadet Regimental Sergeant Major.



Bryan & Ann

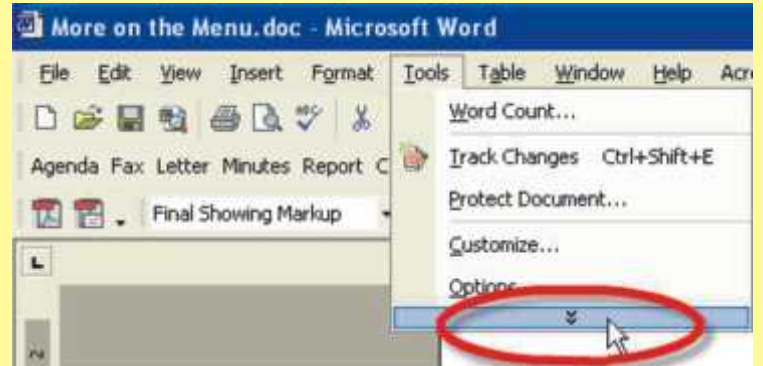
Congratulations also to **Andrew Cuthbert** who married **Marie Stewart** at Pulteney Distillery. They made history, as it was the first event of its kind for the venue. ○



Andrew & Marie

DSRL IT Services Tip of the Month

More on the Menu



By default, office programs such as Word and Excel hide part of the drop-down menus, leaving only commonly used options. If you hover over the arrows at the bottom of the menu, the full menus appear, but this can be clumsy.

How do we find new features if we can't easily see them?

To switch off this feature and always show the entire menu, just take the following steps:



Click on Tools > Customise... >

Click on the Options tab and select the option that says "Always show full menus" ○

Answer to Arrow Word puzzle

Pointed Projectile	B	Type Of Dinosaur	Control Of	S	Brush	Clear Speech	F	Paw	S	Footwear		
▶	A	R	R	O	W	Next After Seven	▶	E	I	G	H	T
Senseless	O	Water Holes	▶	W	E	L	L	S	Female Inheritor	O	Beam Of Light	
▶	I	N	A	N	E	Opposite One Of Two	▶	O	T	H	E	R
Sullen	T	A Blockbuster	▶	E	P	I	C	Seed	E	Entire	A	
▶	D	O	U	R	Accent	Oneness	▶	U	N	I	T	Y
Very Masculine	S	Height	▶	S	T	A	T	U	R	E	Utter	
▶	M	A	C	H	O	Units	▶	I	T	E	M	S
Small Fruit	U	Entering	▶	I	N	T	O	Watering Place	▶	S	P	A
▶	G	R	A	P	E	Beastly	▶	N	A	S	T	Y

