

Aiming for

Decommissioning Excellence



Making progress in

2017–2018

NDA
Nuclear
Decommissioning
Authority

 **Dounreay**

**Cavendish
Dounreay
Partnership**

A partnership between
Cavendish Nuclear | Jacobs | AECOM



We continue to celebrate a long list of successes.

Delivery of a project of strategic national importance to remove nuclear materials remained the priority. The focus and resources required is unprecedented and cannot be underestimated. But Dounreay is about much more.

We have kept our focus on safety, security and the environment by investing in our infrastructure and making improvements to ensure sustained compliance throughout the remainder of our programme.

The Dounreay workforce, our supply chain partners, parent body organisations and customer, the Nuclear Decommissioning Authority (NDA), are working together as one Dounreay team to meet some of the most complex challenges in the industry.

As well as front-line delivery, the focus has been on the development and well-being of the team. We talked about important mental health issues and ambitious goals. But we must do better and this is just the start of our journey. We are committed to long-term improvements to achieve greater equality, diversity and inclusion for everyone in the organisation.

Phil Craig
Managing Director

Dounreay Managing Director **Phil Craig** (left) catches up with Technical Author, **Jim Cassidy**

Scan the codes throughout this brochure or visit www.youtube.com/dounreayTV to watch recent progress films



Safety, security and the environment

Safety, security and the environment are the highest priorities. The aim is zero accidents and sustained compliance

Upgrading infrastructure to meet the demands of decommissioning



Introduced

Dounreay Professionalism

standards and expectations highlighting standards of behaviour expected of the workforce



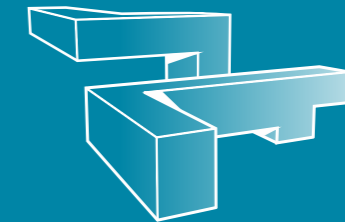
Dounreay's **Total Recordable Incident Rate (TRIR)** reduced to as low as **0.04** during the year. This is the lowest since records began

The aim continues to be **ZERO** accidents



A new ventilation system

was installed in one of the site's most complex facilities. This is part of an investment in infrastructure to ensure sustained environmental compliance



Enhanced cyber security

focus has increased staff awareness and resulted in a reduction in reportable incidents



Supported the introduction of Civil Nuclear Constabulary's Project Servator

high visibility, unpredictable policing initiative



Decommissioning and hazard reduction

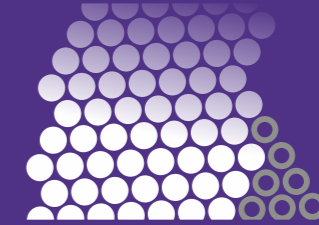
Significant progress has been made to safely reduce hazards and decommission one of Europe's most complex nuclear sites



Progressed a project of **national strategic importance** to remove **exotic material** from the site, requiring collaboration across the **Nuclear Decommissioning Authority** estate and beyond



10% of **breeder elements** now removed from **Dounreay Fast Reactor** after the first material was removed from the reactor in decades



Designed, built and took delivery of bespoke tools to take apart the **Prototype Fast Reactor** vessel



274 tonnes of steel recycled from the demolition of a support complex attached to **Dounreay Materials Test Reactor**



Invested **£17M** in upgrades and maintenance of ageing facilities





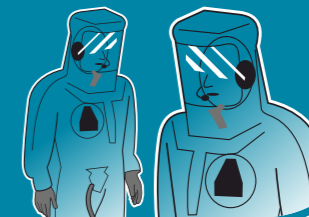
Groundwork was completed for a higher activity **waste store**. Construction is expected to commence in the next year



Processing of **higher activity liquid waste** from the Prototype Fast Reactor began after the site's **cementation plant** was modified to accept the material



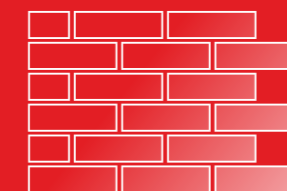
60 years after one of the site's **reprocessing plants** went into active operation, workers in airline suits entered the medium active cells to begin **size reduction of equipment** inside



38 tonnes of waste were recycled after **2 sodium tanks** were dismantled



2 historic **effluent pits** cleaned up and declassified



Supply chain

The supply chain has a critical role to play, working in partnership with the site team to decommission Dounreay



Major competitions

undertaken for strategically important contracts including IT provision, decommissioning services and DMTR demolition



532 tenders received from **contract opportunities**



16 supplier events presentations delivered around the UK



More than **100** companies registered for **LINC with Dounreay**, a new initiative launched to encourage commercial collaboration between the site, small and medium sized enterprises and larger organisations



Supported by **793** suppliers during the year, more than **60%** of which are **small and medium sized enterprises**



Our people

The workforce is involved in some of the most exciting and technically challenging projects in the nuclear industry, developing skills which are increasingly needed in many other industries

An **equality diversity and inclusion forum** was set up to look at all forms of **diversity, mental health awareness, unconscious bias, dignity at work**, and to raise awareness of **inclusivity**



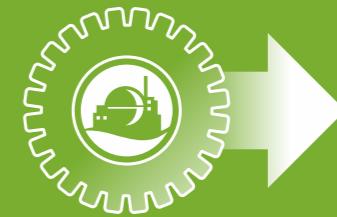
The **Dounreay Women's Network** is taking forward inspirational initiatives, including **mentoring, networking and exchange visits**



19 apprentices and graduates joined the company with a further intake scheduled to start in 2018



A **voluntary release programme**, along with **specialist recruitment**, helped ensure the **right mix of skills** are available for the next phase of decommissioning



900 people took part in **Mind Safety training**



YouTube



Socio-economic development

Dounreay has played an important role in the community for over 60 years, and that continues with support to projects which will create jobs and enhance skills. It supports the work of the Caithness and North Sutherland Regeneration Partnership (CNSRP) which concentrates on opportunities to create sustainable jobs for the future



Secondments, making use of specialist skills from Dounreay and its parent companies including Cavendish Nuclear, supported:

- Wick Harbour (Beatrice offshore windfarm and harbour high water gate)
- Highlands and Islands Enterprise
- UHI North Highland College



Funding support to CNSRP sponsored projects

including more than **£315,000** awarded to:

- **Wick harbour** high water gate design work
- Potential **satellite** launch facility
- **Caithness Horizons** operational costs
- **Tidal operations** and maintenance strategy



Skills:

- **88** registered Science Technology Engineering and Maths (STEM) ambassadors
- **9** business ambassadors supporting the Developing the Young Workforce initiative
- **2** PhD students exploring the nuclear industry and its impact on the community



Local charities:

- Caithness and North Sutherland Fund has received **£2M** to date, linked to the low level waste vaults development
- **£20,000** available from the Dounreay Communities Fund to assist local projects
- Dounreay Employees Charity Fund received **£10,000** supplied by the workforce



Innovation

As well as delivering the programme safely, the Dounreay workforce aims to achieve value for the taxpayer



The workforce is encouraged to submit ideas and improvements using the **Dounreay suggestion scheme**



£1.2M saved over the last 2 years



11 successful ideas submitted to the suggestion scheme in the last year



Scheme is open to **everyone** working on the site



Moving forward

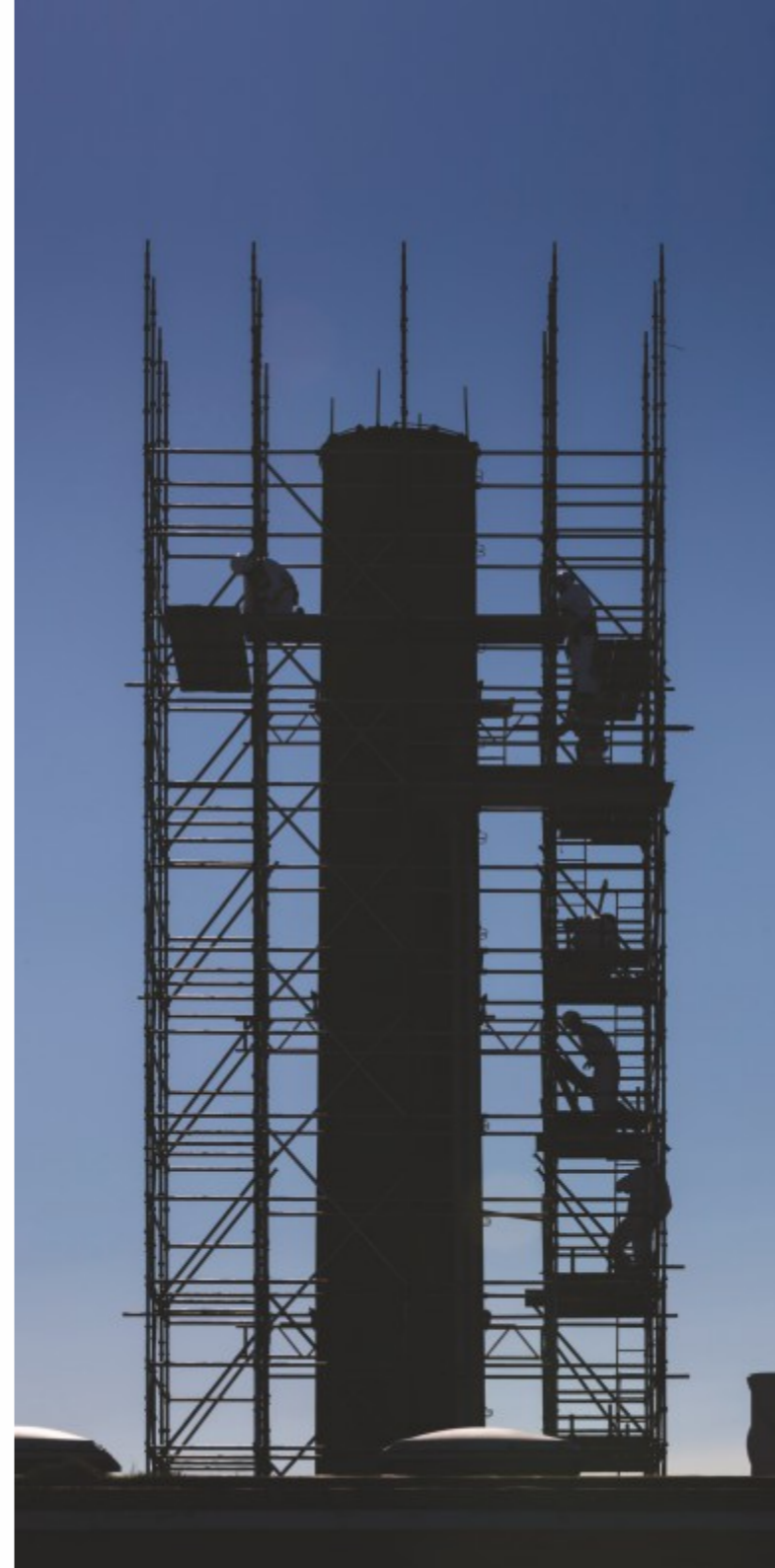
Each year the decommissioning programme gets busier as progress is made to deliver the closure contract and achieve an interim end state

During the next year:

- Safety, security and environmental compliance will remain the highest priorities. Investment will continue to upgrade ageing systems and ensure sustained compliance during the remainder of the programme.
- Focus will remain on the company's equality, diversity and inclusion strategy.
- The final volunteers will leave as part of a staff voluntary release scheme, while a further intake of graduates and apprentices will help ensure the right mix of skills for the programme.
- The Dounreay Socio-Economic Alliance will continue to support local regeneration and job creation activities.

Some examples of progress in the next year are expected to include:

- Work to safely and securely remove exotics and breeder material will continue.
- The bulk sodium heel will be removed from Prototype Fast Reactor.
- Construction of a higher activity waste store will begin.
- Significant progress will continue within the fuel cycle area with a cell wall demolished, redundant laboratories stripped and active components removed and treated.
- A major contract is expected to be awarded to demolish the site's oldest reactor, followed by a framework for decommissioning services.





www.dounreay.com

