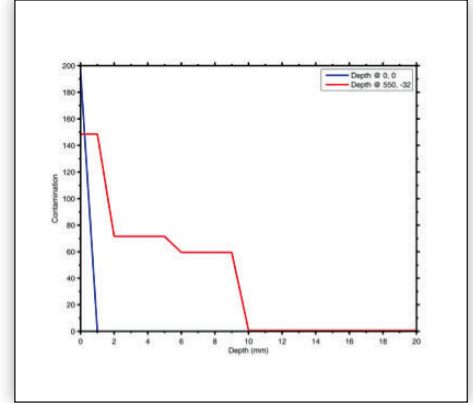
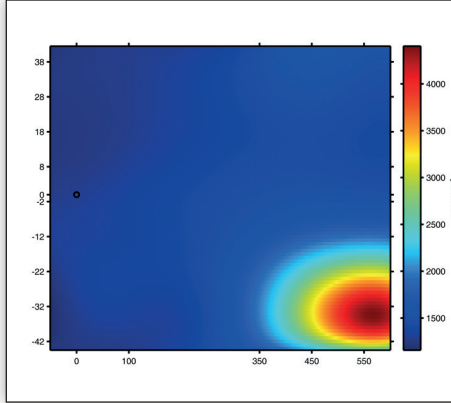


# D:EEP ESTIMATING ENTRAINED PRODUCTS

CREATEC

COSTAIN

» REDUCING THE COST OF NUCLEAR DECOMMISSIONING



## WHAT IS D:EEP?

The ability to provide a detailed survey in real time of contaminated concrete to allow the accurate classification of the build-up of contamination both by element and activity.

The contamination occurs due to the storage of nuclear material leading to contaminated facilities that require decommissioning at the end of their life.

## WHAT IS INNOVATIVE?

The ability to characterise and profile the contamination within concrete and over the entire surface in a decommissioning scenario using non-destructive techniques.

By understanding the complete picture of contamination and where the LLW / ILW boundary it will allow various decommissioning strategies to be modelled before selection of the chosen solution.

## CUSTOMER BENEFITS

Near real-time accurate results to inform the modelling of various decommissioning strategies by entire surface coverage allowing optimal methodology determination.

Reduced uncertainty and hence project risk through production of a contamination profile leading to sizeable project management costs and programme duration savings.

Low dose uptake compared to conventional core sampling by remote deployment and survey.

Exact profile known ensuring optimal segregation of waste reducing incorrectly classified waste resulting in massive storage cost savings.

Non-destructive meaning zero dust or airborne contamination produced.

Potential to assist the underpinning for a safety case to allow in-situ decommissioning in line with the NDA stated strategy.

## WHAT DOES D:EEP OFFER?

### Scan and Analysis

- 1 point to 1000+ points
- Grid layout or target specific areas

### Interpretation and recommendation

- 'Heat' map of the contamination
- Individual contamination depths
- 3D surface model of boundary relative to actual surface
- Decommissioning methodology options and strategies

### Decommissioning strategy

- Flexible project management, planning and execution of selected solution

This offering is tailored to the customers' requirements; from individual elements to the whole package.

## CONTACT

Dr V Bryony Livesey

Tel: 0161 910 3245

[bryony.livesey@costain.com](mailto:bryony.livesey@costain.com)

ENGINEERING TOMORROW...TODAY

InP\_043 Rev. 003

## COSTAIN GROUP PLC

Costain House, Vanwall Business Park,  
Maidenhead, Berkshire, SL6 4UB  
Tel: +44 (0) 1628 842444



[www.costain.com](http://www.costain.com)



Facebook  
@Costain Group



Twitter  
@CostainGroup



LinkedIn  
@Costain Group