

## MASS VOID FILLING



GAS



WATER



NUCLEAR



CONTRACT  
SERVICES

A safe, simple and versatile system for pipe, duct and void decommission

**For over 30 years our expanding polyurethane, closed cell foam has been successfully used to fill pipes and voids on the gas network within the UK and overseas.**

Foam filling long sections of ducting or pipework may be carried out via hot-tappings, open ends or from remote locations via umbilical hoses.

### BENEFITS

- System has been used in the UK gas industry for over 30 years
- Easy disposal once cured
- Bespoke systems for individual projects
- Ideal where space is limited or contaminated
- Well proven technique
- Suitable for non-standard sizes, tapers, bends, shapes and vertical pipework



*Mass filling redundant fuel lines at Harwell Power Station*

***Bespoke systems for individual projects***

### DESCRIPTION

Expanding foams can be injected into pipes, ducts or voids using various established methods and can be pumped up to a distance of 50-75m. Our foams can be designed to give various expansion ratios from 2:1 right up to 20:1 depending on your project requirements.

The technique is suitable for non-standard diameters and shapes, and can be used on tapers and bends as well as on vertical pipe work. The expanding foam is capable of taking any shape and will lock up any debris or media within the void preventing contamination becoming airborne during removal.

The cured foam is very lightweight and can be compressed back to its original mass making disposal extremely easy when compared to cement grouts.



*A mass filled chemical drain manhole chamber at Chapelcross Power Station*

## APPLICATIONS

Our expanding, closed cell polyurethane foam will fill any shape or size of pipe, duct or void.

The cured foam can be cut through preventing contamination escape during pipe or duct removal.

Hot-tapping systems can be designed to allow the escape free injection of the foam. Line of sight is not required as CCTV cameras are used during the operation.

Projects have already been successfully carried out on the chemical drain system at Chapelcross Power Station and on redundant fuel lines at Harwell Power Station.

The foam we use is a viable substitute for cement grout filling and lends itself well to disposal as it becomes chemically inert when cured.



*Foam filled manhole chamber with cured foam encapsulating loose debris and sludge*

## INSTALLATION

We design and develop bespoke injection systems for mass filling to suit your specific project requirements.

Hot-tapping can be used when access to the duct or pipe is not an issue. Airtight gland systems and drills may be designed and supplied to ensure escape-free foam injection.

Remote injection of foam can be accomplished using our established techniques, reducing risk and exposure times in hazardous environments.

Foam expansion (ratios of 2:1 up to 20:1 depending on the project) means that a small amount of material is required to create a large quantity of void filling matter.

**If you would like to discuss our systems  
in greater detail please contact our**

**Nuclear Department on**

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**or email**

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*We have a team of highly experienced technicians who carry out projects around the country*

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