

No Security Marking

Angus Mackintosh


24/10/2005 09:04

To: Dorothy K Seed/Group Office/Risley/BNFL@BNFL  
cc:  
Fax to:  
Subject: FOI request

----- Forwarded by Angus Mackintosh/Group Office/Risley/BNFL on 24/10/2005 09:04

Angus Mackintosh

17/02/2005 15:08

To: "miranda kirschel" <miranda.kirschel@niauk.org>  
cc:  
Fax to:  
Subject: BNFL MUF figures 

Hi Miranda

I don't think I've sent this across to you yet.....apols for the delay.

Best regards

Angus



muf.doc

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## **Media Response – Publication of Materials Unaccounted for (MUF)**

MUF figures have been produced since 1977 and vary from year to year. They are the result of measurement uncertainties. Some years there are apparent gains, some years there are apparent losses.

These uncertainties exist in all industrial processes, for example the gold industry experiences the same thing when extracting gold from ores – the amount recovered never precisely matches the amount estimated in the ore.

No nuclear material has been stolen. Figures change from year to year. Negative numbers do not mean material has disappeared; positive numbers don't mean material has been created.

None has been removed from our plants and there are no security implications of this accounting issue. There are also no safety or environmental implications whatsoever.

Euratom, the European regulator with responsibility for this issue, has accepted all inventories as satisfactory. In fact, The International Atomic Energy Authority (IAEA) sets international standard on these uncertainties at 1% of the total throughput. The latest Sellafield figures represent only around 0.5% of the Sellafield throughput.

The techniques we use to account for our nuclear material are internationally approved and recognised as best practice. In particular, the systems of statistical measurement and control in the Thorp reprocessing plant to estimate the amount of plutonium are the most advanced in the world.

**Group Media Relations**

**Daresbury**

**17 February, 2005**

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• Angus Mackintosh


24/10/2005 09:05

To: Dorothy K Seed/Group Office/Risley/BNFL@BNFL  
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• Angus Mackintosh

10/08/2004 10:15

To: "miranda kirschel" <miranda.kirschel@niauk.org>  
cc:  
Fax to:  
Subject: Illustrations - can you help? 

Hi Miranda

I wonder if you can help, please? Sue Ion (our Technology Director) was interviewed for Chemical & Engineering News last week. The interviewer (Michael Freemantle) was very keen to get hold of some pictures/graphics etc to help illustrate his story which mainly features new technologies in nuclear power generation.....including AP1000, PBMR etc through to Gen IV reactor systems.

I wonder if you had any graphics/illustrations (if any exist) of any of the main six Gen IV reactor systems which seem to be 'in favour' for further 'development' (SFR; VHTR; GFR; MSR; SCWR; LFR.....sorry for the acronyms!!!).

Also, if you have any similar for PBMR which I'm unable to locate (and canm't find any on the PBMR website) it would be useful.

Grateful for any steer or help you can offer.

Many thanks and very best regards

Angus

BNFL  
Head Office  
Daresbury

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• Angus Mackintosh

16/08/2005 08:35

To: "miranda kirschel" <miranda.kirschel@niauk.org>  
cc:  
Fax to:  
Subject: Map of UK power stations?

Hi Miranda

I'm desperately trying to get hold of a map of the UK's nuclear power station sites for a presentation to be given by Sue Ion (our Technology Director). I wondered if you had one that you could send, please? Ideally a jpeg or similar would be terrific.

Many thanks

Angus

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