



MRS S C GOULTY  
FINANCE & SECRETARIAT (NUCLEAR)1

D/DGSM/CSSE/Sec(Nuc) 5/143

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# DPA

**Defence  
Procurement  
Agency**

DGSM/CSSE  
Defence Procurement Agency,  
Ministry of Defence  
Rowan 1a, #164  
MOD Abbey Wood  
Bristol, BS34 8JH

Switchboard: 0117 91 3000

16 June 1999

*Dear Mr Evans*

REQUEST FOR DOCUMENTS - PQ 84348

The documents you requested in your letter of 30 May are enclosed. I have had to use two boxes, and have enclosed a copy of this letter in each box. This is Box One of Two.

If you wish to make a complaint that your request for information has not been properly dealt with, you should appeal to The Ministry of Defence, OMD 14, Rm 617, Northumberland House, Northumberland Avenue, London WC2N 5BP. You may at any time register a complaint with the Parliamentary Commissioner for Administration (the Ombudsman) through your Member of Parliament, but the Ombudsman will expect you to have exhausted the internal Ministry of Defence complaints procedure first.

*Yours sincerely  
S C Goilty*

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AN EXECUTIVE AGENCY OF THE MINISTRY OF DEFENCE



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Protective Marking

**AWE Bid Control Note**  
**MOD Question/ AWE Answer**

|                       |  |                           |
|-----------------------|--|---------------------------|
| <b>Tender Number:</b> | <b>Unique ID Ref:</b><br>1 MOD 1 Q 172 | <b>Date:</b><br>14-Apr-99 |
|-----------------------|--|---------------------------|

**MOD Question:**  
Could we please have a copy of the ESH performance indicators and the recent performance.

|                        |                               |
|------------------------|-------------------------------|
| <b>MOD Originator:</b> | <b>MOD Release Authority:</b> |
|------------------------|-------------------------------|

**AWE Response Time Category:**  
Enter A (5 days), B (10 days), C (15 days) or D (specified days)

The response time required for Category D, if selected, shall be:  working days

**AWE Answer:**  
Please find attached the 1998 Assurance Technical Supplement - Performance Indicators (Ref DMTL/C/C1442b/99/14/02 dated 16/04/99)

**AWE Source/ Document Reference(s):**  
DMTL/C/C1442b/99/14/02 dated 16/04/99

|                        |              |
|------------------------|--------------|
| <b>AWE Owner Name:</b> | <b>Date:</b> |
|------------------------|--------------|

|                                  |              |
|----------------------------------|--------------|
| <b>AWE Peer Review Approval:</b> | <b>Date:</b> |
|----------------------------------|--------------|

|  |                          |
|--|--------------------------|
| <b>AWE Bid Support Office Authorisation for Release:</b> | <b>Date:</b><br>30/04/99 |
|--|--------------------------|

|  |   |              |
|--|---|--------------|
| <b>MOD Authorisation:</b><br>The AWE Answer is Delivered<br>Reference (if applicable): | <b>Signature:</b><br><b>Print Name:</b> | <b>Date:</b> |
|--|---|--------------|

Protective Marking

## 1998 ASSURANCE TECHNICAL SUPPLEMENT

*PERFORMANCE INDICATORS***Performance Measures**

In 1997 Hunting-BRAE/AWE took a major step closer to its aim of being in the top 10% of comparable companies by introducing challenging targets in key areas of Environment, Safety and Health within the Company, such as lost time accident frequency, radiation doses, compliance with Discharge Authorisations, and sickness absence of our staff. These targets were set below any legal limits already imposed on the Company by our regulators. They are used to help improve continually the Health and Safety of our workforce and to minimise any impact on the Environment. They also enable the Company to demonstrate the excellent safety record of AWE.

*A. Performance Indicators for 1998*

We met eight out of ten of our main performance indicators for 1998, the exceptions being Lost Time Accident Frequency rate and Individual Dose. The targets set for 1998 and the achievements are given in the table below:

PERFORMANCE INDICATORS FOR 1998

| PI | Description   | Target Level for 1998       | Performance at end of 1998  |
|----|---|-----------------------------|-----------------------------|
| 1  | Number of breaches of authorised radioactive discharge limits.                                      | 0                           | 0                           |
| 2  | Lost Time Accident Frequency rate.  | 0.30 per 100,000 hrs worked | 0.35 per 100,000 hrs worked |
| 3  | Maximum Individual Annual Whole Body Radiation Exposure.  | 6.5 mSv                     | 14.5 mSv *<br>or 5.93 mSv*  |
| 4  | Collective Dose for Classified Persons and Monitored Radiation Workers.                             | 1200 man mSv                | 640 man mSv<br>**<br>*      |
| 5  | Number of Enforcement Notices.  | 2                           | 1                           |
| 6  | Sickness Absence as % of total hours worked.  | 4%                          | 2.67 %                      |
| 7  | Number of Warning Letters from the regulators.  | 12                          | 8                           |
| 8  | Operational failure of Nuclear Critical Plant taking the plant outside its safe operating envelope. | none                        | none                        |

|    |  |          |          |
|----|--|----------|----------|
| 9  | Performance against authorisations for liquid waste discharged via the Pangbourne Pipeline and Trade Waste routes: |          |          |
|    | Total Alpha  | 100 MBq  | 24.5 MBq |
|    | Total Beta   | 90 MBq   | 40.7 MBq |
|    | Total Tritium  | 45 GBq   | 1.4 GBq  |
| 10 | Performance against authorisations for gaseous discharge:  |          |          |
|    | Total Alpha  | 0.27 Mbq | 0.15 MBq |
|    | Total Beta   | 0.46 MBq | 0.16 MBq |
|    | Total Tritium  | 34 TBq   | 2.5 TBq  |

### **Number of Breaches of Authorised Radioactive Discharge Limits**

In 1998, no radioactive discharge limit has been exceeded by any site.

### **Lost Time Accident Frequency Rate**

The lost time injury rate has increased from 0.19 per 100,000 hours for 1997, to 0.35 for 1998, above the target figure of 0.30. Most of our 'lost time' injuries have arisen from handling incidents, or trips and falls - the most common occurrences in all industry. The AWE reportable injury rate is still low - only two-thirds that for all manufacturing industry.

### **Maximum Individual Annual Whole Body Radiation Exposure**

The target figure for individual radiation dose for 1998 was 6.5 mSv. A dosimeter left in a radioactive workplace had a dose recorded at 14.5 mSv. Although we are confident the worker did not receive this dose it has to be formally recorded in our dose databank. We have made an application to the HSE asking for this record to be removed. If this application is successful then we will have met our target since the next highest recorded dose is 5.93 mSv, most of which came from a finger wound incident in September. Otherwise, the highest individual dose from routine work was only 3.2 mSv. More than 98% of individual doses were less than 1.0 mSv.

### **Collective Dose for Classified Persons and Monitored Radiation Workers**

The collective dose for 1998 was 640 man mSv, only a little over 50% of the target figure of 1200 man mSv. The achieved figure was due in part to reduced work programmes.

### **Number of Enforcement Notices**

The Company set a target of no more than 2 Enforcement Notices from all of the regulating bodies in 1998. In fact just 1 Enforcement Notice was issued by the Nuclear Installations Inspectorate in October. The NII had concern about the Company's procedures for ensuring Safe Systems of Work. The Company agreed a schedule of corrective work with NII. This was completed in April 1999 at which stage an HSE team inspection verified that improvements had taken place.

## Sickness Absence as Percentage of Total Hours Worked

The good health of our workforce is of great importance and an indication of this is the amount of time employees are away from work due to sickness. All sickness absence is recorded at AWE and in 1998 only 2.67% of hours worked was attributed to sickness against a target of 4%.

## Number of Warning Letters from the Regulators

The number of times the regulators write to the Company requesting improvements to be made is a measure of how safely we are working. The Company set a target of 12 such letters for 1998 and in fact we received just 8, 6 from the NII/HSE and 2 from the Environment Agency.

## Operational Failure of Nuclear Critical Plant taking the plant outside its Safe Operating Envelope

There are a number of safety and back-up systems in our major high hazard Facilities which ensure that the risks of an unplanned radioactive release are negligible. There were no occasions this year in which any piece of nuclear safety critical equipment failed when tested in its operational capacity.

## Liquid Waste Discharges

No liquid discharge target for alpha, beta and tritium via the various waste streams was exceeded for 1998. In fact all three specified discharges were very close to those achieved in 1997.

## Gaseous Waste Discharges

No total gaseous discharge target for alpha, beta and tritium was exceeded for 1998. The tritium discharge was only 63% of last year's.

## B. Performance Indicators for 1999

### PERFORMANCE INDICATORS FOR 1999

| PI | Description   | Target Level for 1999       |
|----|---|-----------------------------|
| 1  | Number of breaches of authorised <u>radioactive</u> discharge limits.                               | 0                           |
| 2  | Lost Time Accident Frequency rate.  | 0.30 per 100,000 hrs worked |
| 3  | Maximum Individual Annual Whole Body Radiation Exposure.  | 6.2 mSv                     |
| 4  | Collective Dose for Classified Persons and Monitored Radiation Workers.                             | 1000 man mSv                |
| 5  | Number of Enforcement Notices.  | 2                           |
| 6  | Sickness Absence as % of total hours worked.  | 4%                          |
| 7  | Number of Warning Letters from the regulators.  | 11                          |
| 8  | Operational failure of Nuclear Critical Plant taking the plant outside its safe operating envelope. | none                        |

|    |  |                                |
|----|--|--------------------------------|
| 9  | Performance against authorisations for liquid waste discharged via the Pangbourne Pipeline and Trade Waste routes:<br>Total Alpha<br>Total Beta<br>Total Tritium | 75 MBq<br>75 MBq<br>45 GBq     |
| 10 | Performance against authorisations for gaseous discharge:<br>Total Alpha<br>Total Beta<br>Total Tritium  | 0.35 Mbq<br>0.35 MBq<br>25 TBq |

AWE's 1999 Environment, Safety and Health performance targets have generally been set at even more challenging levels than for 1998. For example, nearly all the radioactive discharge targets have been set at lower levels based on the excellent experience of the past two years - with the exception of Total Alpha Gaseous Discharge, for which the target is slightly higher than last year to take into account anticipated decommissioning work.