Introductory Document

To accompany:

- (i) Application for registration of premises for open sources, and
- (ii) Application for authorisation to accumulate and dispose of radioactive waste from non-nuclear premises

by Studsvik UK Limited, for premises at Lillyhall Industrial Estate, Workington, Cumbria

Introduction

We have received an application from Studsvik UK Limited for the registration of premises at Workington, Cumbria for the keeping and use of radioactive material under section 7 of the Radioactive Substances Act 1993 (RSA93). The company has also applied for an authorisation to accumulate and dispose of radioactive waste from the same premises under sections 13 & 14 of RSA93. We are obliged to consult relevant local authorities on these applications prior to issuing a registration or authorisation and we also wish to consult other relevant organisations. This document summarises the applications made and accompanies copies of the applications provided to consultees.

Scope of applications

Application for registration under s.7 RSA93

Type and Use of Radioactive

Material:

Metallic items with radioactive contamination will be received from nuclear, non-nuclear and Ministry of Defence (MoD) sites for treatment involving size

reduction and decontamination.

Radionuclides:

Any associated with waste management and

decommissioning activities at those sites.

Max radioactivity to be held

on premises at any one time:

1 Terabecquerel (TBq)

Application for authorisation under s.13&14 RSA93

How waste is to be

produced:

From application of treatment techniques such as size reduction and decontamination of metallic items/components from nuclear/non-

nuclear/MoD sites.

Types of waste for accumulation:

Very low level solid waste (VLLW)

Solid low level waste (LLW)

Types of waste for disposal

Gaseous waste

Aqueous waste

Very low level solid waste (VLLW) Solid low level waste (LLW) Waste disposal routes:

Gaseous waste via 12m stack Aqueous waste to sewer VLLW with normal refuse LLW to Low Level Waste Repository at Drigg

Limits of authorisation application:

See table 1

Radiological assessment

Studsvik UK Ltd have provided an assessment of the radiological impact on members of the public and sewage treatment workers as a result of the proposed discharges to atmosphere and the proposed discharges to sewer. In all cases the predicted radiation exposure is <1µSv/year. We have confirmed this assessment using our own radiological screening assessment.

Consultees

Allerdale Borough Council and Cumbria County Council are being consulted through this process as the premises are within their areas. Copeland Borough Council is being consulted since the authorisation application includes disposals to the LLW Repository at Drigg.

The Nuclear Safety Directorate of the Health and Safety Executive (HSE), the Food Standards Agency (FSA) and the Office for Civil Nuclear Security (OCNS), are being consulted through this process since materials and waste being handled and disposed of from the premises may have arisen from nuclear licensed sites.

Our plans

We consider the radiological impact of the disposals to atmosphere and to sewer to be very low, in line with the radiological assessment provided with the applications. We consider the volume of disposals of VLLW to be insignificant. We support the intention to reduce the overall volume of wastes to be transferred to the LLWR at Drigg.

Subject to comments from consultees, we will plan for the issue of a registration and an authorisation to Studsvik UK Limited, containing limits as set out in the applications and table 1. The authorisation will also require the use of 'best practicable means' to minimise disposals of radioactive waste.

Summary

Studsvik UK Ltd have applied for the registration of premises at Workington for the keeping and use of open radioactive sources in the form of contaminated metallic items. These items will originate from nuclear, non-nuclear and MoD sites and are to be size reduced and/or decontaminated. The company has also applied for an authorisation to dispose of the resultant wastes that are subject to authorisation under RSA93. We are inviting consultees to comment on the applications. Please provide responses by Friday 14th July 2006.

Please send acknowledgement of receipt of these applications using the reply slip overleaf.

Mike Scott Nuclear Regulation Group (North) Environment Agency 14th June 2006

Table 1 – Summary of limits in authorisation application

The Action to				
lype of waste	caseous waste to atmosphere	Aqueous waste to sewer	VLLW	rrw
Max volume to be accumulated at any one time	F	3	0.2m³	2000m³
Max radioactivity to be accumulated at any one time	2	1	ı	1 TBq
Max time for accumulation	8	1	ż weeks	12 months
Max volume for disposal	1	5m³ per month	0.4m³ per month	100m³ per year
Max radioactivity for disposal	Am241 - 5kBq/year Cs137 - 10kBq/year	Am241 - 25kBq/month Cs137 - 25kBq/month	1	U - 20GBq Ra226/Th232 - 10GBq
		-		Other alpha – 20GBq
	Our plans are to limit	Our plans are to limit		C14 – 1GBq
	'total alpha'-5kBq/year	'total alpha'-25kBq/month		1129 – 1GBq Triffi IIII – 100GB2
	ding	and		Co60 - 100GB2
-	total beta = TURbq/year	total beta –25KBd/month		Other beta/gamma 100GBg