

Certificate Of Registration

IN TERMS OF THE NATIONAL NUCLEAR REGULATOR ACT, 1998 ACT NO. 47 OF 1999)

CERTIFICATE OF REGISTRATION NO. COR-10

Certificate of Registration No. COR-101 is hereby granted by the National Nuclear Regulator (hereinafter referred to as the NNR) in terms of section 22 of the above Act

to

THE NEW RECLAMATION GROUP (PTY) LIMITED RICHARDS BAY

Registration Number Registered address

2005/041029/07 84 Alumina Allee

Alton

Richards Bay

3900

(hereinafter referred to as the holder)

subject to the terms and conditions set out herein.

BM Mkhize

CHIEF EXECUTIVE OFFICER

AUTHORISATION CONDITIONSPART 1: GENERAL CONDITIONS

1.1 SCOPE

1.1.1 The holder is authorised to carry out the actions associated with radioactive material on the site as set out, and identified, in section 2.1 of this authorisation.

1.2 OPERATIONAL RADIATION PROTECTION

1.2.1 **GENERAL**

- 1.2.1.1 The holder must, appoint a Radiation Protection Officer and Radiation Protection Monitor each with an alternate and notify the NNR of their names.
- 1.2.1.2 The holder must appoint a Responsible Person and an afternate and notify the NNR of their names.
- 1.2.1.3 The Responsible Person must ensure compliance with the conditions of this authorisation.
- 1.2.1.4 The NNR must be informed immediately of any change of personnel mentioned in 1.2.1.1 and 1.2.1.2,

1.2.2 RADIATION PROTECTION PROGRAMME - WORKFORCE

- 1.2.2.1 The holder must adhere to the control measures listed in section 2.2 and the provisions contained in the revision of documents listed in section 2.2 of this authorisation.
- 1.2.2.2 The holder must, on an annual basis, submit a report on the doses received by the occupationally exposed workforce. Verification of these doses must be provided by a recognised Radiation Protection Specialist.
- 1.2.2.3 The holder must on an annual basis, submit a revised medical surveillance protocol, or a motivation for maintaining the existing protocol, prepared by a Medical Practitioner who is registered with the South African Medical and Dental Council and who has successfully completed the appropriate training in radiation protection.

1.3 RADIOACTIVE WASTE

- 1.3 The holder must adhere to a radioactive waste management programme approved by the NNR in the revision mentioned in section 2.3. The radioactive waste management programme must embody all the requirements listed in section 2.3 of this authorisation.
- 1.3.2 A quarterly report must be submitted to the NNR summarising the information recorded in terms of the radioactive waste management programme.



TRANSPORTATION 1.4

1.4.1 Transportation of radioactive material or of any equipment or objects contaminated with radioactive material off the site or on roads which are accessible to the public must be carried out in terms of the provisions of the Regulations for the Safe Transport of Radioactive Material of the International Atomic Energy Agency in the revision specified in section 2.4 of this Authorisation.

For the purpose of compliance with this condition, the National Nuclear Regulator is the National Competent Authority as provided in the National Nuclear Regulator Act.

1.4.2 An annual report must be submitted to the NNR detailing the number of consignments made during the preceding year, the radioactive content per consignment, the nature of the packaging and the names of the consignees.

PHYSICAL SECURITY 1.5

1.5.1 A physical security system, approved by the NNR, which prevents unauthorised access to areas containing radioactive material and the unauthorised removal of such material, must be in place.

ACCIDENTS AND INCIDENTS 1.6

1.6.1 The NNR must be notified of any accidents and incidents within the timescales required in terms of section 26 of this authorisation. Such notification must be carried out as in accordance with NNR document RD-009: "Verbal Emergency Communication with the National Nuclear Regulator: Mining and Minerals Processing", in the revision specified in section 2.6 of this authorisation.

QUALITY MANAGEMENT 1.7

1.7.1 The quality management provisions set out in section 2.7 of this authorisation must be complied with

SCHEDULE 1.8

1.8.1 The actions and completion dates listed in section 2.8 of this authorisation, must be adhered to.

This Certificate of Registration is effective from the date of issue.

Issued at Centurion on the

9th day of November 2011.

BM Mkhize

CHIEF EXECUTIVE OFFICER

AUTHORISATION CONDITIONSPART 2: SPECIFIC CONDITIONS

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DOCUMENT CONTROL TABLE

18 OCTOBER 2011

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SECTION 2.1: SCOPE

2.1.1 The authorised site is the surface areas encircled and marked stand 9013, 9014 on the site diagram submitted with the application for a COR for The New Reclamation Group (Pty) Ltd – Richards Bay.

The authorised site is located at No. 84 Alumina Allee, Alton Richards Bay, 3900

- 2.1.2 The holder may, subject to the conditions in part 1 of this authorisation, carry out the following actions:
 - 2.1.2.1 Recycling and clean up of radioactively contaminated material from facilities handling naturally occurring radioactive material as received from clients.



SECTION 2.2: OPERATIONAL RADIATION PROTECTION

- 2.2.1 The areas where actions involving equipment contaminated with radioactive material are carried out, must be classified as Controlled Areas ("the areas") and the following control measures implemented:
 - 2.2.1.1 The areas must be suitably demarcated and appropriate warning signs must be displayed at the access points to the areas.
 - 2.2.1.2 Personnel whose duties require access to the areas must be designated as occupationally exposed person. Such personnel must:
 - be eighteen years of age or older,
 - be given instruction in the nature of radiation hazards, the principles of radiation protection and appropriate facility procedures controlling radiation hazards
 - be medically examined in accordance with an approved protocol
 - have their personal radiation doses assessed.
 - 2.2.1.3 A Radiation Dose Register which records the dose to occupationally exposed persons must be maintained. This register must be retained by the holder for a period of fifty years from the date of the last entry, unless otherwise directed by the NNR.
 - 2.2.1.4 Personnel carrying out actions in the area must wear gloves, boots and overalls that may not be removed from the authorised site.
 - 2.2.1.5 The holder must submit to the NNR, for approval, a programme to provide reasonable assurance that skin contamination on persons leaving the area, and prior to them eating, drinking and smoking, is removed to as low as reasonably achievable and in any case to pelow the following limits:

Alpha emitters : 0.04 Bq.cm⁻²

Beta and gamma emitters : 0.4 Bq.cm⁻²

- (averaging over 300 cm² is permitted when monitoring for such contamination).
- 2.2.1.6 Activities in the areas must be carried out in such a manner as to minimise the spread of contamination.
- 2.2.1.7 Eating, drinking, smoking and loitering is not permitted in the areas.



2.2.1.8 On a quarterly basis, the Radiation Protection Monitor must conduct an open-probe, beta-gamma, on-contact survey of the areas on a 1 m² grid with a surface contamination monitor.

On an annual basis, the Radiation Protection Monitor must conduct an open-probe, beta-gamma, on-contact survey of the areas on a 5 m² grid with a surface contamination monitor.

Records of these surveillances must be maintained and kept.

- 2.2.1.9 The holder must submit to the NNR for approval, a surveillance programme for the purpose of individual dose assessment.
- 2.2.1.10 The holder must submit to the NNR for approval, a procedure to be followed in the event of the specified set-point of the drive-through gamma dose-rate monitor or other appropriate monitoring device being triggered, as well as all documentation related to the calibration and operation of the monitoring device.
- 2.2.1.11 The holder must maintain and keep a record of all the measurements taken by the drive-through bulk gamma dose-rate monitor or other appropriate monitoring device
- Hazard Assessment Report for The New HA-RRB-11/2010 (Rev_0) 2.2.2 Limited. Group (Pty) Reclamation Richards Bay Site. Radiation Protection Programme for The Rev 0) RPP-RRB-11/10 2.2.3 Radioactively of Management Scrap At The New Contaminated Reclamation Group (Pty) Ltd, Richards Bay Site.
- 2.2.4 MSP-RECLAM-11/10 (Rev 0) The New Reclamation Group (Pty) Ltd Medical Surveillance And Control Protocol.

SECTION 2.3: RADIOACTIVE WASTE

- 2.3.1 The radioactive waste management programme must make provision for:
 - the identification of wastes with a specific alpha (U-238, U-234, Th-230, Ra-226, Po-210, Th-232 and Th-228) activity concentration above and below 1000 Bq/g;
 - 2.3.1.2 the collection of the radioactive waste;
 - 2.3.1.3 the disposal and/or storage of the radioactive waste:
 - 2.3.1.4 a system of record keeping which details the content of all packages of radioactive waste, the nature of the packaging material as well as the location of storage and/or disposal
- 2.3.2 WMP-RRB-11/10 (Rev 0) Waste Management Programme For The Management of Radioactively Contaminated Scrap At The Reclamation Group (Pty) Ltd, Richards Bay Site.



SECTION 2.4: TRANSPORTATION

2.6.1 TS-R-1 (ST-1, Revised)

Regulations for the Safe Transport of Radioactive Material 2009 Edition (Revised).

2.4.1 TRS-RRB-11/10

(Rev 0)

Transport of Radioactively Contaminated Material From The Mining And Minerals Processing Facilities By The New Reclamation Group (Pty) Ltd, Richards Bay Site.



SECTION 2.5: PHYSICAL SECURITY

2.5.1 PSP-RRB-11/10

(Rev 0)

Physical Security Procedure At The New Reclamation Group (Pty) Ltd., Richards Bay Site.



SECTION 2.6: ACCIDENTS AND INCIDENTS

- 2.6.1 The NNR must be notified forthwith of the following accidents and incidents:
 - 2.6.1.1 transport accidents involving radioactive material;
 - 2.6.1.2 triggering of the specified set-point of the alarm on the drivethrough bulk gamma dose-rate monitor or equivalent monitoring device;
 - 2.6.1.3 personal injury involving equipment contaminated with radioactive material;
- 2.6.2 ORN-RRB-11/10 (Rev 0) Occurrence Reporting and Notification Procedure For The New Reclamation Group (Pty) Ltd. Richards Bay Site.



SECTION 2.7: QUALITY MANAGEMENT

- 2.7.1 The executive manager must define and issue a policy statement, which includes objectives for and commitment to safety and quality.
- 2.7.2 Compliance with authorisation conditions must be reviewed on an annual basis by executive management. During this review, non-compliance eports, corrective actions requests and records of any other performance related reporting mechanism shall be evaluated.
- 2.7.3 Documents related to the authorisation conditions in part 1 of this authorisation must be prepared and reviewed by competent personnel and authorised for implementation by an individual designated by the executive manager.
- 2.7.4 An approved document control system, for ensuring the correct utilisation of document revision must be established, documented, authorised and implemented.
- 2.7.5 Measures must be established, documented, authorised and implemented to ensure that non-compliances with authorisation conditions are identified, corrected and recorded.

2.7.6 QMP-RRB-11/10

(Rev 0)

Quality Management Programme For the Management of Radioactively Contaminated Scrap At The New Reclamation Group (Pty) Ltd, Richards Bay Site



SECTION 2.8: SCHEDULE

Radiation Protection Programme - Workforce	Action	Completion
6 Monthly dose reports for surface operations	Submission	End of July End of January (include summary for

Integrated Radioactive Waste Management Programme	Action	Completion
Quarterly waste reports for surface operations including the Inventory of consignments	Submission	End of July End of January (include summary for year)

Occurrences	Action	Completion
Occurrence Report	Submission	As appropriate

Quality Management	Action	Completion
Self –Inspection Schedule and plan	Submission	November 2011





Natural Occurring Radioative Material

Record of Decision

LB/35/6/11/101

Re: Application for Certificate of Registration lodged by The New Reclamation Group (Pty) Ltd- Richards Bay in terms of the provisions of National Nuclear Regulator Act No. 47 of 1999.

1. INTRODUCTION

The New Reclamation Group (Pty) Ltd- Richards Bay has lodged an application for Certificate of Registration in terms of section 22(1) of the National Nuclear Regulator Act, Act 47 of 1999, to process scrap metal potentially contaminated with uranium-based scales from mining and mineral processing facilities. These actions will be carried out at following address location:

STANDS 9013 and 9014 84 Alumina Allee Alton Richards bay 3900

2. TECHNICAL FINDINGS FROM THE SUBMISSIONS

The New Reclamation Group (Pty) Ltd- Richards Bay has provided all information as per the prescribed application format including, a completed application form, site of area where the actions will be carried out and certified copy of certificate of incorporation of the company.

In addition to the above information, a safety assessment as well as all operational safety procedures has been submitted as required.

3. KEY FACTORS THAT LED TO THE DECISION

The New Reclamation Group (Pty) Ltd- Richards Bay has provided information as per the prescribed format including, a completed application form, area where the action will be carried out and certified copy of Certificate of Incorporation of the company. In addition to these documents, a safety assessment as well as all operational safety procedures has been submitted as required.

The hazard assessment conducted at **The New Reclamation Group (Pty) Ltd-Richards Bay** indicated surface soil activity concentrations of a range between 65.66 Bq/kg – 229.86 Bq/kg. Since these values are around the background levels they could be used as reference levels during clean-up period when the applicant ceases the operations. However the entire site will be designated as supervised area due to the likelihood of enhanced levels of surface contamination expected during normal operation, above 0.04 Bq/cm² and 0.4 Bq/cm² for alpha and beta respectively.

4. CONCLUSION AND RECOMMENDATIONS

Based on the above, it is recommended that a COR be granted to **The New Reclamation Group (Pty) Ltd- Richards Bay** for carrying out the above-mentioned actions at the location as identified in section 1 above.

It is also recommended that once the COR is issued, **The New Reclamation Group (Pty)** Ltd-Richards Bay, be charged an annual athorisation fee of R27,956.40. This is based on classification provided in government gazette number 790 of 30 September 2011. It should also be noted that the nuclear authorization fee above will be amended from time to time in line with the published government gazette. Once published the fee above will be automatically revised and communicated to the holder.

Also attached to this memo is a copy of a COR and a file containing the application information.

Your approval of the above recommendation is respectfully requested.

5. QUALITY ASSURANCE TRAIL

1. Name

THIS ROD WAS PREPARED BY:

Designation

P Mohajane	Principal Specialist: Environment and RP	Lujae	07-11-20-4
		O	Section and Leaves and
THIS ROD WA	S REVIEWED BY		
1. Name	Designation	Signature	Date
L Mpete	Functional Coordinator: Environment and RP	Shipporte	08-11-2011
Remark/Comm	nent: Recommene	ded for Approval!	

Signature

.1

Date

2 Name	Designation	Signature	Date
T Tselane	Manager:NORM		08/11/2011
Remark/Com	Approval	Recommend	ed!
3. Name	Designation	Signature	Date
O Phillips	Senior Manag SARA	per: Coshullip	9/11/2011
Remark/Com	ment: Recommune	uded For appr	2000:

Name	Designation	Signature	Date
Adv BM Mkhize	CEO:NNR	All ag.	glulu

The New Reclamation Group (Pty) Ltd- Richards Bay (COF MR B Stockes

PO Box 30472 Richards Bay 3900 Activity performed Review Review Review Review Review Review Review Review Review	O Box 30472 Richards Bay Activity performed Description O35 751 1682 (fax) O35 751 1682 Review Preliminary Review of the Application Mr P Mohajane 1 Review Radiation Protection Programme Mr P Mohajane 4 Review Waste management Programme Mr P Mohajane 4 Review Waste management Programme Mr P Mohajane 3 Review Transport Procedure Mr P Mohajane 3 Review Occurrence reporting and Notification Mr P Mohajane 3 Review Physical Procedure Mr P Mohajane 3	035 751 1682(fax) Responsible Person Mr P Mohajane	035 751 1682 Hours Spent 1 4 4 4 2 3 3
Review	Quality Management Programme	Mr P Mohajane	4
Review	Preparation and Review of Record of decision on approval of application for COR	Mr P Mohajane	ဇ
Keview	Management contribution	Mr P Mohajane	3.2
	Application fee	96	
			35.2

R 1,130.68

Hourly Fee

R 5,653.40

R 4,522.72 R 4,522.72

R 3,392.04 R 3,392.04

> Signature Signature Signature MPETE raple Jouisa

> > Reviewed by

Prepared by

Approved by

SELAME HA BO

11 36 11 1102-11-80 02-11-2011 0.7 Date Date

Date

-R 17,956.40 R 21,843.54

R 3,618.18

R 4,522.72 R 3,392.04

R 2,261.36

R 3,392.04