## NOTICE 1398 OF 2006

## NOTICE OF APPLICATION FOR A NUCLEAR INSTALLATION LICENCE IN TERMS OF SECTION 21(3) OF THE NATIONAL NUCLEAR REGULATOR ACT (ACT NO. 47 OF 1999)

Notice is hereby given in terms of Section 21 of the National Nuclear Regulator Act (Act No 47 of 1999) that Pebble Bed Modular Reactor (Proprietary) Limited has made an application for a Nuclear Installation Licence. This Application supersedes the previous application published by Necsa.

A copy of the application is set out hereunder as Schedule A.

In terms of the provisions of Section 21 (4)(a) of the National Nuclear Regulator Act (NNRA) any person who may be directly affected by the granting of a nuclear installation or vessel licence pursuant to an application in terms of subsection (1) or (2) may make representations to the Board of the NNR, relating to health, safety and environmental issues connected with the application, within 30 days of the date of publication in the Gazette contemplated in Subsection(3)(b)

Publication in the Government Gazette was made on 29 September 2006.

Representatioc must be addressed io:

The Chief Executive Officer

National Nuclear Regulator

P O Box 7106

CENTURION

0046

Fax: (012) 663 5513/674 7822

Schedule A: The application for a Nuclear Installation Licence as submitted under FPA0018

	(4) Not applicable (5) Physical address of the proposed installation: Building B-D1, B-D2,B-CB a d B-C5 BEVA Site Church Street West QELINDABA
P B M R	(6) Postal Address of the Applicant:
Pebble Bed Modular Reactor (Pty) Ltd. Reg. No: 1999/17946/07	PBMR Fuel Division Manager Lake Buena Vista Building 1267 Gordon Hood Avenue
3rd Floor, Lake Buena Vista Building, 1267 Gordon Hood Avenue, Centurion, Republic of South Africa PO Box 9396 Centurion 0046 Tel (+27 12) 677-9400 Fax (+27 12) 663-3052187971 677-9446	PO Box 9396 CENTURION 0046
OFFICE OF THE CEO	(7) Description of the proposed nuclear installation:
17 July 2006 Mr Maurice Magugumela Chief Executive Officer	The proposed nuclear installation is for a plant that will manufacture fuel spheres and graphite spheres (non-fuel) for the proposed PBMR (Proprietary) Limited. The Pilot Fuel Plant will be operated by PBMR (Proprietary) Limited for a period of 10 years.
PO Box 7106 Centurion 0046	Chemical, ceramic, thermal and mechanical processes will be used for the manufacture of the fuel spheres. The fuel spheres will contain enriched uranium oxide, which is encapsulated in various pyrolitic carbon and silicon carbide contings to form a coated particle of about 0.9 mm diameter. About 15 000 of these coated
Dear Mr Magugumela,	particles, togetrier with graphile matrix material are then compressed into a sphere. This sphere is then the compression of the state of graphile to form a final sphere containing 9 grams of uranium and
APPLICATION FOR A NUCLEAR INSTALLATION LICENCE FOR A PBMR FUEL MANNFACTURING PLANT	zuo grams or graphile with a tinal diameter of 60 mm. The graphite spheres will be manufactured using similar thermal and mechanical processes to the fuel spheres and will be of similar size and weight.
In accordance with Section 21 of the National Nuclear Regulator Act 1999 (Act No. 47 of 1999), we	The proposed plant is designed to produce fuel spheres containing 3.5 tons of up to 10% enriched uranium and 80 tons of graphite spheres per annum.
netery make an application for a nuclear installation licence for the prospective sitting, construction, commissioning, operation, decontamination and decommissioning of a Pebble Bed Modular Reactor (PBMR) Fuel Manufacturing plant and for the transport of fuel fabrication material and fuel spheres.	The proposed manufacturing plant will be installed in the buildings previously used and licensed to manufacture nuclear fuel for the Koeberg Pressured Water Reactor. With adaption to suit manufacture of the PRMR type find the avising hiddings are therefore suithed for this proposed type of
In conformance with Government Notice No. R. 479 of 12 May 2000 and Regulations in terms of Section 47, read with Section 21 and 22 of the NNR Act 1999, the following information that is relevant to this application is hereby provided.	conform to requirements for radiological processes.
The numbering is as per Section 3 of the Regulation:	Piccation and transported to the Pelindada site. The manufactured tuel spheres will be transported from the Pelindaba site to the Pocation where the PBMR technology will be situated (the first supply is currently channed for the demonstration DBMR on Koehene thein in the Cana Twue Mercocline. Mercocline to the context of the demonstration of t
(1) The application is for a nuclear installation licence (2) The applicant is PBMR (Proprietary) Limited. A juristic gerson ⊛ jist red in terms ⊌f The Companies Act 71 of 1963 (as amended) (3) Physical Address of Head Office:	Cape Province).
PBMR (Pty) Ltd Lake Buena Vista Building 1267 Gordon Hood Avenue PO Box 9396 CENTURION 0046	Yours shreefy Munel Jang Kreek

SCHEDULE A