

December 23, 2005

APPLICANT: PEBBLE BED MODULAR REACTOR (PTY) LTD.

PROJECT: PEBBLE BED MODULAR REACTOR PRE-APPLICATION REVIEW

SUBJECT: SUMMARY OF DECEMBER 12, 2005, MEETING WITH PEBBLE BED MODULAR REACTOR (PTY) LTD. REGARDING PLANNING FOR PEBBLE BED MODULAR REACTOR PRE-APPLICATION REVIEW

On December 12, 2005, a public meeting was held between the U.S. Nuclear Regulatory Commission (NRC) staff and representatives of Pebble Bed Modular Reactor (Pty) Ltd. (PBMR) to discuss a proposed plan for a pre-application review of the PBMR. The staff was provided with PBMR's proposed plan by letter dated December 8, 2005 (ML053420601). The attendance list for the meeting is shown as Enclosure 1. The agenda is shown as Enclosure 2.

This was the third in a series of meetings for the purpose of planning for a pre-application process. The first meeting was held on June 30, 2005; that meeting summary is available at ML052010504. The second was held on September 21 and 22, 2005, and the meeting summary is available at ML052770593.

PBMR described in detail the elements of a plan to engage the NRC staff in a series of discussions and document reviews extending from February 2006 to June 2007. The discussions would begin with two familiarization sessions, each requiring multiple days. These familiarization sessions would seek to inform the staff on the design of a pilot pebble-bed reactor expected to be constructed in South Africa. A document will be submitted to the staff ahead of the familiarization sessions which will be the basis for the presentations at the sessions. That document is expected to be proprietary.

PBMR proposed that starting in May 2006, a series of nineteen white papers would be submitted for staff review. It was stated that the white papers would range from 50 to 200 pages in length. PBMR is requesting that each white paper submittal be followed with a workshop during which staff would be able to obtain explanations and clarifications on the material. Such a workshop would be followed by a request for additional information (RAI) from the staff. A second workshop would be held after PBMR has developed the needed information and would provide the forum for discussion of the questions posed by the staff. Subsequently, a revised white paper would be submitted. A documented response is requested from the NRC staff on the revised white paper. PBMR has prioritized the importance they attach to the content of the white papers as A, B, or C, with A having the highest priority. There are 14 A priority white papers, 4 with B priority, and one with C priority.

In addition to the white papers, a document called the design certification application specification will be submitted that provides the format and content structure for the design certification application (DCA). The existing guidance for such a structure applies primarily to light water reactors. PBMR expects to submit a DCA in early 2008.

The staff provided PBMR with information regarding current priorities and resource constraints faced by the NRC. NRC is assigning the highest priority to those DCAs that have a domestic partner with whom a combined license application is expected. At this time, PBMR does not have a domestic partner. The resources budgeted by NRC for FY 2006 and 2007 currently includes only limited manpower for PBMR pre-application review. Although PBMR has requested a response to their plan by January 13, 2006, the staff informed them that more time will be needed to develop a response. PBMR requested that, even if a quick comprehensive response is not possible, some feedback be provided regarding conduct of the familiarization sessions beginning at the end of February 2006.

Please direct inquiries regarding this meeting to N. Prasad Kadambi at 301-415-5896, or [npk@nrc.gov](mailto:npk@nrc.gov).

*/RA/*

N. Prasad Kadambi, Project Manager  
New Reactors Section  
Advanced Reactors and Regulatory Effectiveness Branch  
Division of Systems Analysis and Regulatory Effectiveness  
Office of Nuclear Regulatory Research

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*/RA/*

N. Prasad Kadambi, Project Manager  
New Reactors Section  
Advanced Reactors and Regulatory Effectiveness Branch  
Division of Systems Analysis and Regulatory Effectiveness  
Office of Nuclear Regulatory Research

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OFFICE	ARREB		ARREB		C:ARREB	
NAME	NPKadambi:mtb		JDanna by JRosenthal		JRosenthal	
DATE	12/21/05*		12/22/05*		12/23/05*	

NRC/PBMR PUBLIC MEETING  
 MONDAY, DECEMBER 12, 2005, 2:00 P.M – 4:00 P.M.  
 ATTENDANCE

NAME	AFFILIATION	PHONE NO.	EMAIL ADDRESS	Check if email notification of future meetings is sufficient (U)
N.P. Kadambi	USNRC	301-415-5896	<a href="mailto:npk@nrc.gov">npk@nrc.gov</a>	T
Ed Wallace	PBMR	423-344-6774	<a href="mailto:edward.wallace@pbmr.us">edward.wallace@pbmr.us</a>	T
Ed Burns	PBMR	703-528-5975	<a href="mailto:ed.burns@pbmr.us">ed.burns@pbmr.us</a>	T
Farshid Shahrokhi	AREVA	434-832-2923	<a href="mailto:f.shahrokhi@Framatome-ANP.com">f.shahrokhi@Framatome-ANP.com</a>	T
Stuart Rubin	USNRC	301-415-7480	<a href="mailto:sdr1@nrc.gov">sdr1@nrc.gov</a>	T
Steve Frantz	PBMR-ML&B	202-739-5460	<a href="mailto:sfrantz@morganlewis.com">sfrantz@morganlewis.com</a>	
Kent Welter	NRC/RES	301-415-5740	<a href="mailto:kbw@nrc.gov">kbw@nrc.gov</a>	
Rod Adams	Adams Atomic Engines, Inc.	410-268-6253	<a href="mailto:rod.adams@atomicengines.com">rod.adams@atomicengines.com</a>	T
Herman Graves	USNRC	301-415-5880	<a href="mailto:HLG1@NRC.GOV">HLG1@NRC.GOV</a>	T
Charles Greene	NRC/RES	301-415-6177	<a href="mailto:cag2@nrc.gov">cag2@nrc.gov</a>	
John N. Ridgely	NRC/RES	301-415-6555	<a href="mailto:JNR@NRC.GOV">JNR@NRC.GOV</a>	
Alan Rubin	NRC/RES	301-415-6776	<a href="mailto:AMR@NRC.GOV">AMR@NRC.GOV</a>	T
Russ Wells	Parallax	301-428-1493	<a href="mailto:rwells@parallaxnet.com">rwells@parallaxnet.com</a>	T
Wendy Wong	US DOE	301-903-4653	<a href="mailto:wendy.wong@nuclear.energy.gov">wendy.wong@nuclear.energy.gov</a>	T
James Danna	US NRC/RES	301-415-6253	<a href="mailto:jgd@nrc.gov">jgd@nrc.gov</a>	T
James Kim	NRC/NRR	301-415-4125	<a href="mailto:jsk@nrc.gov">jsk@nrc.gov</a>	T
Laura Dudes	NRC/NRR	301-415-0146	<a href="mailto:lad@nrc.gov">lad@nrc.gov</a>	T
Marty Stutzke	NRC/NRR/DRA	301-415-4105	<a href="mailto:mas7@nrc.gov">mas7@nrc.gov</a>	T

Agenda for Public Meeting Regarding PBMR Pre-Application Plans  
December 12, 2005

<u>Time</u>	<u>Topic</u>	<u>Lead by:</u>
2:00 p.m.	Opening Remarks	NRC/PBMR (Pty) Ltd.
2:15 p.m.	Description of PBMR pre-application plans	PBMR (Pty) Ltd.
3:15 p.m.	Description of NRC priorities and constraints	NRC
3:45 p.m.	Opportunity for Public Comment	All
4:00 p.m.	Concluding remarks	NRC/PBMR (Pty) Ltd

**NOTE:**                    **Specific topics and associated discussion times may change without notice.**

**Contact:**  
**Prasad Kadambi, RES**  
**301-415-5896, [npk@nrc.gov](mailto:npk@nrc.gov)**

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JKim, NRR

ed.burns@earthlink.net  
pgunter@nirs.org  
labarm@gat.com  
laurence.parme@gat.com,  
Jaco.Kriek@pbmr.co.za  
edward.wallace@pbmr.co.za  
regis.a.matzie@us.westinghouse.com  
dieter.matzner@pbmr.co.za  
Thabang.Makubire@pbmr.co.za  
Mbaloyi@saembassy.org  
gclapiss@nnr.co.za

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OGC  
OPA  
ACRS/ACNW  
JFlack, ACRS  
HFaulkner, OIP  
tom.miller@hq.doe.gov  
andrew.griffith@nuclear.energy.gov  
brinkman@westinghouse.com  
F.Shahrokhi@framatome-ANP.com  
Rcoulon@cogema-inc.com  
paige.negus@ge.com  
hlhay@bechtel.com  
Cberger@Energetics.com

PBMR

cc:

Mr. Charles Brinkman  
Westinghouse Electric Co.  
Washington Operations  
12300 Twinbrook Pkwy., Suite 330  
Rockville, MD 20852

Mr. George Alan Zinke, Project Manager  
Nuclear Business Development  
Entergy Nuclear  
M-ECH-683  
1340 Echelon Parkway  
Jackson, MS 39213

Mr. Thomas P. Miller  
U.S. Department of Energy  
NE-20, Rm. A286  
Headquarters-Germantown  
19901 Germantown Road  
Germantown, MD 20874-1290

Ms. Marilyn Kray  
Vice President, Special Projects  
Exelon Generation  
200 Exelon Way, KSA3-E  
Kennett Square, PA 19348

Mr. Laurence Parme  
Manager, GT-MHR Safety & Licensing  
General Atomics Company  
P.O. Box 85608  
San Diego, CA 92186-5608

Mr. Joseph D. Hegner  
Lead Engineer - Licensing  
Dominion Generation  
Early Site Permitting Project  
5000 Dominion Boulevard  
Glen Allen, VA 23060

Mr. W. Edward Cummins  
AP600 and AP1000 Projects  
Westinghouse Electric Company  
P.O. Box 355  
Pittsburgh, PA 15230-0355

Dr. Robert E. Gamble  
Manager, ESBWR  
GE Nuclear Energy  
1989 Little Orchard St., M/C 365  
San Jose, CA 95125-1030

Mr. Ian M. Grant  
Canadian Nuclear Safety Commission  
280 Slater Street, Station B  
P.O. Box 1046  
Ottawa, Ontario  
K1P 5S9

Mr. Edward F. Sproat, III  
Vice President - Int'l Projects  
Exelon Generation  
200 Exelon Way  
Kennett Square, PA 19348

Mr. Glenn H. Archinoff  
AECL Technologies  
481 North Frederick Avenue  
Suite 405  
Gaithersburg, MD. 20877

Dr. Regis A. Matzie  
Senior Vice President and  
Chief Technology Officer  
Westinghouse Electric Company  
2000 Day Hill Road  
Windsor, CT 06095-0500

Mr. Ed Wallace, General Manager  
Projects  
PBMR Pty LTD  
PO Box 9396  
Centurion 0046  
Republic of South Africa

Mr. Dobie McArthur  
Director, Washington Operations  
General Atomics  
1899 Pennsylvania Avenue, NW  
Suite 300  
Washington, DC 20006

Mr. Russell Bell  
Nuclear Energy Institute  
Suite 400  
1776 I Street, NW  
Washington, DC 20006-3708

Mr. Jerald S. Holm  
Framatome ANP, Inc.  
3315 Old Forest Road  
P.O. Box 10935  
Lynchburg, VA 24506-0935

Mr. J. Alan Beard  
GE Nuclear Energy  
13113 Chestnut Oak Drive  
Darnestown, MD 20878-3554

Mr. Ralph Beedle, Senior Vice President  
and Chief Nuclear Officer  
Nuclear Energy Institute  
1776 I Street, NW Suite 400  
Washington, DC 20006-3708

Mr. David Lochbaum  
Union of Concerned Scientists  
1707 H Street, NW, Ste 600  
Washington, DC 20006-3919

R. Shane Johnson, Acting Director  
U.S. Department of Energy  
Office of Nuclear Energy, Science  
and Technology  
NE-1, Room 5I-143  
1000 Independence Avenue, SW  
Washington, DC 20585

Mr. Dieter Matzner  
Director, Power Plant Delivery  
PBMR Pty, Limited  
Lake Buena Vista Building  
1267 Gordon Hood Ave.  
P.O. Box 9397  
Centurion 0046  
Republic of South Africa

Mr. Paul Gunter

Nuclear Information and Resource Service  
1424 16th Street, NW, Suite 404  
Washington, DC 20036

Mr. James Riccio  
Greenpeace  
702 H Street, NW, Suite 300  
Washington, DC 20001

Mr. Adrian Heymer  
Nuclear Energy Institute  
1776 I Street, NW Suite 400  
Washington, DC 20006-3708

Dr. Edwin Lyman, Scientific Director  
Nuclear Control Institute  
1000 Connecticut Avenue NW Suite 410  
Washington, DC 20036

Hugh Jackson  
Public Citizen Critical Mass Energy Project  
215 Pennsylvania Avenue, SE  
Washington, DC 20003

PBMR Pty, Limited  
Lake Buena Vista Building  
1267 Gordon Hood Ave.  
P.O. Box 9396  
Centurion 0046  
Republic of South Africa

Mr. Edward L. Quinn  
MDM Services Corporations  
Utility Operations Division  
28202 Cabot Road, Suite 205  
Laguna Nigual, CA 92677

Mr. Paul Leventhal  
Nuclear Control Institute  
1000 Connecticut Avenue, NW  
Suite 410  
Washington, DC 20036

Ms. Patricia Campbell  
Morgan, Lewis & Bockius, LLP  
1111 Pennsylvania Avenue, NW  
Washington, DC 20004

Dr. Jack W. Roe

Nuclear Energy Institute  
1776 I Street, NW  
Washington, DC 20006-3708

Mr. Stephen P. Frantz  
Morgan, Lewis, & Bockius, LLP  
1111 Pennsylvania Avenue, NW  
Washington, DC 20004

Mr. Gary Wright, Manager  
Office of Nuclear Facility Safety  
Illinois Department of Nuclear Safety  
1035 Outer Park Drive  
Springfield, IL 62704

Mr. Brendan Hoffman  
Research Associate on Nuclear Energy  
Public Citizens Critical Mass Energy  
and Environmental Program  
215 Pennsylvania Avenue, SE  
Washington, DC 20003

Mr. Tom Clements  
6703 Gude Avenue  
Takoma Park, MD 20912

Mr. Lionel Batty  
Nuclear Business Team  
Graftech  
12300 Snow Road  
Parma, Ohio 44130

Ms. Vanessa E. Quinn, Chief  
Radiological Emergency Preparedness  
Section  
Department of Homeland Security  
1800 S. Bell Street, Room 837  
Crystal City-Arlington, VA 22202-3546

Mr. Ron Simard  
6170 Masters Club Drive  
Suwanee, GA 30024

Ms. Kathryn Sutton, Esq.  
Morgan, Lewis & Bockius, LLP  
1111 Pennsylvania Avenue, NW  
Washington, DC 20004

Ms. Anne W. Cottingham

Assistant General Counsel  
Nuclear Energy Institute  
1776 I Street, NW, Suite 400  
Washington, DC 20006  
Mr. David Repka  
Winston & Strawn LLP  
1700 K Street, NW  
Washington, DC 20006-3817

Mr. Robert E. Sweeney  
IBEX ESI  
4641 Montgomery Avenue  
Suite 350  
Bethesda, MD. 20814

Mr. Eugene S. Grecheck  
Vice President, Nuclear Support Services  
Dominion Energy, Inc.  
5000 Dominion Blvd.  
Glen Allen, VA 23060