

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.

/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

Project No. 732

Enclosures: As stated

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N. Prasad Kadambi, Project Manager
New Reactors Section
Advanced Reactors and Regulatory Effectiveness Branch
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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	npk@nrc.gov	T
Ed Wallace	PBMR	423-344-6774	edward.wallace@pbmr.us	T
Ed Burns	PBMR	703-528-5975	ed.burns@pbmr.us	T
Farshid Shahrokhi	AREVA	434-832-2923	f.shahrokhi@Framatome-ANP.com	T
Stuart Rubin	USNRC	301-415-7480	sdr1@nrc.gov	T
Steve Frantz	PBMR-ML&B	202-739-5460	sfrantz@morganlewis.com	
Kent Welter	NRC/RES	301-415-5740	kbw@nrc.gov	
Rod Adams	Adams Atomic Engines, Inc.	410-268-6253	rod.adams@atomicengines.com	T
Herman Graves	USNRC	301-415-5880	HLG1@NRC.GOV	T
Charles Greene	NRC/RES	301-415-6177	cag2@nrc.gov	
John N. Ridgely	NRC/RES	301-415-6555	JNR@NRC.GOV	
Alan Rubin	NRC/RES	301-415-6776	AMR@NRC.GOV	T
Russ Wells	Parallax	301-428-1493	rwells@parallaxnet.com	T
Wendy Wong	US DOE	301-903-4653	wendy.wong@nuclear.energy.gov	T
James Danna	US NRC/RES	301-415-6253	jgd@nrc.gov	T
James Kim	NRC/NRR	301-415-4125	jsk@nrc.gov	T
Laura Dudes	NRC/NRR	301-415-0146	lad@nrc.gov	T
Marty Stutzke	NRC/NRR/DRA	301-415-4105	mas7@nrc.gov	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

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ARREB R/F

DSARE R/F

CPaperiello, RES

FELtawila, RES

JRosenthal, RES

JDanna, RES

NPKadambi, RES

OWFN Receptionist

TWFN Receptionist

WBeckner, NRR

LDudes, NRR

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

E-Mail

PMNS

PUBLIC

RES Grp.

JDyer, NRR

RBorchardt, NRR

DMatthews, NRR

BSheron, NRR

MMayfield, NRR

JLyons, NRR

JHannon, NRR

JWermiel, NRR

FAkstulewicz, NRR

JNakoski, NRR

FReinhart, NRR

MRubin, NRR

DThatcher, NRR

SWeerakkody, NRR

SMorris, NSIR

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