February 12, 2004

MEMORANDUM TO: Laura A. Dudes, Section Chief
New Reactors Section
New, Research and Test Reactors Program
Division of Regulatory Improvement Programs
Office of Nuclear Reactor Regulation

FROM: Amy Cubbage, Project Manager ***/RA/***
New Reactors Section
New, Research and Test Reactors Program
Division of Regulatory Improvement Programs
Office of Nuclear Reactor Regulation

SUBJECT: NOVEMBER 6, 2003, AP1000 TELEPHONE CONFERENCE CALL SUMMARY

On Thursday, November 6, 2003, a telephone conference call was held with Westinghouse Electric Company (Westinghouse) representatives and Nuclear Regulatory Commission (NRC) staff to discuss open items related to removal of aerosol in the containment. The NRC staff specifically discussed the Westinghouse response to draft safety evaluation report (DSER) open items (OIs) 15.3-1 and 15.3.6-1 related to the applicability of the AP600 aerosol removal coefficients to the AP1000 design and Westinghouse's assumptions on aerosol removal in containment, respectively. Westinghouse submitted responses to these open items on July 1, 2003 (ADAMS Accession No. ML031950553). A list of call participants is included in Attachment 1.

The following is a brief summary of the discussions regarding this topic:

(1) The staff questioned the basis for the method used by Westinghouse to account for aerosol density. Westinghouse stated that it is justified to consider particle void fractions and packing factors in the calculation of aerosol density, and that the method used is consistent with that used by Sandia National Laboratory. The staff requested references for the method used, and Westinghouse committed to provide the requested references.

(2) The staff questioned the basis for the value of the particle void fraction of 0.2. Westinghouse committed to provide additional justification for the 0.2 particle void fraction. If the particle void fraction is changed, then Westinghouse would have to redo the calculation. Westinghouse proposed instead to revise the DCD to state that although there is uncertainty in the value of the particle void fraction, sensitivity studies have shown that the impact of a larger particle void fraction is small. The staff stated that they would review the DCD revision when it is submitted.

(3) The staff also asked Westinghouse if the steam density was based on the total pressure or partial pressure. Westinghouse stated that the steam density was based on total pressure, and that Westinghouse would verify this. The staff stated that the question would be closed if Westinghouse used the total pressure.

Docket No. 52-006

Attachment: As stated

cc: See next page

(3) The staff also asked Westinghouse if the steam density was based on the total pressure or partial pressure. Westinghouse stated that the steam density was based on total pressure, and that Westinghouse would verify this. The staff stated that the question would be closed if Westinghouse used the total pressure.

Docket No. 52-006

Attachment: As stated

cc: See next page

Distribution:
Hard Copy
RNRP R/F
JLyons
ACubbage
JSegala
JStarefos
JColaccino
LDudes

E-mail
PUBLIC
DMatthews
JMoore, OGC
RWeisman, OGC
RDennig
MHart
ADrozd

ACCESSION NUMBER: ML040300159

OFFICE	RNRP:PM	RNRP:PM	SPSB:SC	RNRP:SC
NAME	ACubbage	JColaccino	RDennig	LDudes
DATE	01/30/04	02/5/04	02/9/04	02/11/04

OFFICIAL RECORD COPY

NOVEMBER 6, 2003
TELEPHONE CONFERENCE CALL SUMMARY
LIST OF PARTICIPANTS

Nuclear Regulatory Commission	Westinghouse
J. Colaccino	R. Vijuk
M. Hart	J. Scobel
A. Drozd	J. Grover

Attachment 1

cc:

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

Mr. H. A. Sepp
Westinghouse Electric Company
P.O. Box 355
Pittsburgh, PA 15230

Lynn Connor
Doc-Search Associates
2211 SW 1ST Ave - #1502
Portland, OR 97201

Barton Z. Cowan, Esq.
Eckert Seamans Cherin & Mellott, LLC
600 Grant Street 44th Floor
Pittsburgh, PA 15219

Charles Brinkman, Director
Washington Operations
Westinghouse Electric Company
12300 Twinbrook Parkway, Suite 330
Rockville, MD 20852

Mr. R. Simard
Nuclear Energy Institute
1776 I Street NW
Suite 400
Washington, DC 20006

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

Mr. David Lochbaum
Nuclear Safety Engineer
Union of Concerned Scientists
1707 H Street NW, Suite 600
Washington, DC 20006-3919

Mr. Paul Gunter
Nuclear Information & Resource Service
1424 16th Street, NW., Suite 404
Washington, DC 20036

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

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

Mr. James F. Mallay, Director
Regulatory Affairs
FRAMATOME, ANP
3315 Old Forest Road
Lynchburg, VA 24501

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

Mr. Vince Langman
Licensing Manager
Atomic Energy of Canada Limited
2251 Speakman Drive
Mississauga, Ontario
Canada L5K 1B2

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

Dr. Gail H. Marcus
U.S. Department of Energy
Room 5A-143
1000 Independence Ave., SW
Washington, DC 20585

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

Mr. Jack W. Roe
SCIENTECH, INC.
910 Clopper Road
Gaithersburg, MD 20878

Patricia Campbell
Winston & Strawn
1400 L Street, NW
Washington, DC 20005

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

Mr. Ronald P. Vijuk
Manager of Passive Plant Engineering
AP1000 Project
Westinghouse Electric Company
P. O. Box 355
Pittsburgh, PA 15230-0355