

March 7, 1994

Docket No. 52-003

MEMORANDUM FOR: R. W. Borchardt, Director  
Standardization Project Directorate  
Associate Directorate for Advanced Reactors  
and License Renewal, NRR

FROM: Kristine M. Shembarger, Project Manager  
Standardization Project Directorate  
Associate Directorate for Advanced Reactors  
and License Renewal, NRR

SUBJECT: NOTICE OF MEETING WITH WESTINGHOUSE TO DISCUSS MODULAR  
CONSTRUCTION FOR THE AP600

DATE AND TIME: April 7, 1994 (8 a.m. - 4 p.m.)

LOCATION: Avondale Shipyard  
1500 River Road  
Avondale, LA 70094

PURPOSE: To discuss modular construction for the AP600. An agenda is  
enclosed.

Due to the proprietary nature of the issues to be discussed,  
only the meeting introduction and conclusion will be open to  
the public.

PARTICIPANTS*:	<u>NRC &amp; Contractors</u>		<u>Westinghouse</u>	<u>Avondale</u>
	G. Bagchi	H. Graves	D. Lingren	T. Verret
	T. Cheng	B. Liaw	J. Castello	
	C. Hofmayer, BNL	K. Shembarger	R. Orr	
	J. Braverman, BNL			

Original Signed By:

Kristine M. Shembarger, Project Manager  
Standardization Project Directorate  
Associate Directorate for Advanced Reactors  
and License Renewal, NRR

Enclosure:  
As stated

cc w/enclosure  
See next page

\*Meetings between NRC technical staff and applicants or licensees are open for interested members of the public, petitioners, intervenors, or other parties to attend as observers pursuant to the "Open Meetings and Statement of NRC Staff Policy," 43 Federal Register 20858, June 28, 1978. However, portions of this meeting may be closed to protect Westinghouse proprietary information. Members of the public who wish to attend should contact me at (301) 504-1114.

DISTRIBUTION: See next page

OFC: LA:PDST:ADAR	PM:PDST:ADAR	PM:PDST:ADAR	SC:PDST:ADAR
NAME: PShea	KShembarger:sg	TKenyon	RArchitzel
DATE: 03/7/94	03/7/94 <i>ONS</i>	03/7/94	03/7/94

*Handwritten initials and date: PFOB 4/4*

OFFICIAL RECORD COPY: AVONMTG1.KMS

NRC FILE CENTER COPY

9403100039 940307  
PDR ADOCK 05200003  
A PDR

Westinghouse Electric Corporation

Docket No. 52-003

cc: Mr. Nicholas J. Liparulo  
Nuclear Safety and Regulatory Analysis  
Nuclear and Advanced Technology Division  
Westinghouse Electric Corporation  
P.O. Box 355  
Pittsburgh, Pennsylvania 15230

Mr. Victor G. Snell, Director  
Safety and Licensing  
A&CL Technologies  
9210 Corporate Boulevard  
Suite 410  
Rockville, Maryland 20850

Mr. B. A. McIntyre  
Advanced Plant Safety & Licensing  
Westinghouse Electric Corporation  
Energy Systems Business Unit  
Box 355  
Pittsburgh, Pennsylvania 15230

Mr. Raymond N. Ng, Manager  
Technical Division  
Nuclear Management and  
Resources Council  
1776 Eye Street, N.W.  
Suite 300  
Washington, D.C. 20006-3706

Mr. John C. Butler  
Advanced Plant Safety & Licensing  
Westinghouse Electric Corporation  
Energy Systems Business Unit  
Box 355  
Pittsburgh, Pennsylvania 15230

Mr. M. D. Beaumont  
Nuclear and Advanced Technology Division  
Westinghouse Electric Corporation  
One Montrose Metro  
11921 Rockville Pike  
Suite 350  
Rockville, Maryland 20852

Mr. Sterling Franks  
U.S. Department of Energy  
NE-42  
Washington, D.C. 20585

Mr. S. M. Modro  
EG&G Idaho Inc.  
Post Office Box 1625  
Idaho Falls, Idaho 83415

Mr. Steve Goldberg  
Budget Examiner  
725 17th Street, N.W.  
Room 8002  
Washington, D.C. 20503

Mr. Frank A. Ross  
U.S. Department of Energy, NE-42  
Office of LWR Safety and Technology  
19901 Germantown Road  
Germantown, Maryland 20874

AGENDA FOR MEETING TO DISCUSS  
MODULAR CONSTRUCTION FOR THE AP600  
APRIL 7, 1994

1. AP600 MODULAR DESIGN PROCESS
  - Process flow
  - Design criteria
  - Design responsibility
2. AVONDALE EXPERIENCE WITH MODULAR CONSTRUCTION
  - Equipment modules
  - Structural modules
  - Experiences with concrete filled steel modules
3. SHOP FABRICATION PROCESS
  - Preparation of modular construction plans
  - Typical module fabrication process
  - Procedure development
  - Welding - process, procedure, PWHT, inspections, etc.
  - Fabrication tolerances
  - Use of mockups and prototypes
  - Handling and lifting
  - Protective coating
4. TRANSPORTATION CONSIDERATIONS
  - Modes of transportation
  - Transportation loads
  - Typical transportation problems
  - Requirements for special shipping fixtures, jigs, or orientation
  - Protection during shipping
5. DESIGN PROVISIONS TO ADDRESS FABRICATION AND ASSEMBLY ISSUES
  - Access for inspection and maintenance
  - Constructability
  - Fit up tolerances
  - Industry standards
6. PLANT SITE ACTIVITIES
  - Receipt inspection
  - Storage, handling, protection
  - Additional preparation activities
  - Erection tolerances and variances
  - Welding procedures and inspections
7. LUNCH
8. TOUR
9. QUESTIONS AND DISCUSSIONS

DISTRIBUTION:

Docket File

PDR

PDST R/F

WRussell/FMiraglia

DCrutchfield

WTravers

RBorchardt

RArchitzel

AChaffee, EAB

KShembarger

TKenyon

FHasselberg

PShea

JMoore, 15B18

EJordan, MNBB3701

ACRS (11)

OPA

NRR Mailroom, 12G18

GZech, RPEB

GBagchi, 7H15

HGraves, RES

TCheng, 7H15

BLiaw, 7D26

090017