

52-003



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

March 26, 1996

Mr. Nicholas J. Liparulo
Nuclear Safety and Regulatory Activities
Westinghouse Electric Corporation
P.O. Box 355
Pittsburgh, Pennsylvania 15230

Dear Mr. Liparulo:

SUBJECT: FOLLOWON QUESTION ON THE AP600

As a result of its review of the June 1992 application for design certification of the AP600, the staff has determined that it needs additional information in order to complete its review. The staff is concerned with Westinghouse's ability to support the design implementation and operation of the AP600 instrumentation and controls system in the future. See the enclosed question Q420.125.* Please respond to this request within 60 days of the date of this letter to support the review of the AP600 design.

You have requested that portions of the information submitted in the June 1992 application for design certification be exempt from mandatory public disclosure. While the staff has not completed its review of your request in accordance with the requirements of 10 CFR 2.790, that portion of the submitted information is being withheld from public disclosure pending the staff's final determination. The staff concludes that these followon questions do not contain those portions of the information for which exemption is sought. However, the staff will withhold this letter from public disclosure for 30 calendar days from the date of this letter to allow Westinghouse the opportunity to verify the staff's conclusions. If, after that time, you do not request that all or portions of the information in the enclosures be withheld from public disclosure in accordance with 10 CFR 2.790, this letter will be placed in the NRC's Public Document Room.

These followon questions affect nine or fewer respondents, and therefore is not subject to review by the Office of Management and Budget under P.L. 96-511.

*The numbers in parentheses designate the tracking numbers assigned to the questions.

DF01
"11"

020073

NRC FILE CENTER COPY

9605020162 960326
PDR ADOCK 05200003
A PDR

Mr. Nicholas J. Liparulo

- 2 -

March 26, 1996

If you have any questions regarding this matter, you can contact me at (301) 415-1120.

Sincerely,

original signed by:

Thomas J. Kenyon, Project Manager
Standardization Project Directorate
Division of Reactor Program Management
Office of Nuclear Reactor Regulation

Docket No. 52-003

Enclosure: As stated

cc w/enclosure:
See next page

DISTRIBUTION:

*Docket File
*PUBLIC
RArchitzel
DJackson
JSebrosky
WDean, EDO
MSeimien, OGC
ACRS (11)

*** HOLD FOR 30 DAYS**

PDST R/F
TQuay
WHuffman
TKenyon
EMarinos, 0-8 H3
HLi, 0-8 H3
EJordan, T-4 D18
JMoore, 0-15 B18

DOCUMENT NAME: A:I&C.LTR (AP600 3C DISK)

To receive a copy of this document, indicate in the box: "C" = Copy without attachment/enclosure "E" = Copy with attachment/enclosure "N" = No copy

OFFICE	PM:PDST:DRPM	SC:PDST:DRPM						
NAME	DJackson - T. Kenyon	RArchitzel						
DATE	03/26/96	03/26/96						

OFFICIAL RECORD COPY

Mr. Nicholas J. Liparulo
Westinghouse Electric Corporation

Docket No. 52-003
AP600

cc: Mr. B. A. McIntyre
Advanced Plant Safety & Licensing
Westinghouse Electric Corporation
Energy Systems Business Unit
P.O. Box 355
Pittsburgh, PA 15230

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

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

Mr. S. M. Modro
Nuclear Systems Analysis Technologies
Lockheed Idaho Technologies Company
Post Office Box 1625
Idaho Falls, ID 83415

Enclosure to be distributed to the following addressees after the result of the proprietary evaluation is received from Westinghouse:

Mr. Ronald Simard, Director
Advanced Reactor Programs
Nuclear Energy Institute
1776 Eye Street, N.W.
Suite 300
Washington, DC 20006-3706

Ms. Lynn Connor
DOC-Searach Associates
Post Office Box 34
Cabin John, MD 20818

Mr. James E. Quinn, Projects Manager
LMR and SBWR Programs
GE Nuclear Energy
175 Curtner Avenue, M/C 165
San Jose, CA 95125

Mr. John E. Leatherman, Manager
SBWR Design Certification
GE Nuclear Energy, M/C 781
San Jose, CA 95125

Barton Z. Cowan, Esq.
Eckert Seamans Cherin & Mellott
600 Grant Street 42nd Floor
Pittsburgh, PA 15219

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

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

Mr. Charles Thompson, Nuclear Engineer
AP600 Certification
U.S. Department of Energy
NE-451
Washington, DC 20585

Mr. Ed Rodwell, Manager
PWR Design Certification
Electric Power Research Institute
3412 Hillview Avenue
Palo Alto, CA 94303

REQUEST FOR ADDITIONAL INFORMATION
ON THE AP600 DESIGN

420.125

WCAP-14080, "AP600 Instrumentation and Control Software Architecture and Operation Description," states that the Intel PL/M class of languages (e.g., PL/M-51, PL/M-86, and PL/M-96) was chosen for use in protection and control systems. In a recent technical discussion with computer software language consultants, the staff became aware that the PL/M language and compilers for PL/M-51, PL/M-86, and PL/M-96 are no longer supported by the Intel Corporation. Most PL/M programmers have moved onto working in other languages, and the currently available tools are being discontinued. The PL/M language has, therefore, lost its technological base for new development. Describe the strategy that Westinghouse will use to support the design implementation and operation of the AP600 digital instrumentation and control systems in the future, including software development, modification, configuration management, maintenance, and technical personnel training throughout the software life cycle given the apparent lack of support for PL/M.

Enclosure