

February 6, 2003

Mr. James Fu
Energy Northwest
Columbia Generating Station
Snake River Complex
North Power Plant Loop
Richland, WA 99352

Dear Mr. Fu:

Per your request, enclosed is a compact disk containing the Level 1, Revision 3 Standardized Plant Analysis Risk (SPAR) model for Columbia Generating Station and the SAPHIRE 6.75 suite of probabilistic risk assessment (PRA) computer codes. Also enclosed is a copy of the user's manual for the Columbia Generating Station SPAR model. The SAPHIRE code suite is required to perform analyses with the Revision 3 SPAR model. Both of these software packages are in the form of executable files that can be run directly from the compact disk. These items are for your organization's use only and are not to be distributed further without the consent of the NRC. Also please note that the information contained in the SPAR model is considered sensitive and should be treated accordingly.

The Revision 3 SPAR model for Columbia Generating Station has been reviewed with your PRA staff and benchmarked against your PRA model for the plant. Subsequent to this review and benchmarking, the SPAR model: (1) was revised to address comments and issues identified during the review, (2) now yields results which are in reasonable agreement with those produced by your PRA model, and (3) has no associated outstanding modeling issues. For these reasons, we are certifying that the Columbia Generating Station SPAR model meet all Revision 3 SPAR model quality assurance (QA) criteria and is therefore acceptable for unrestricted use by your staff analysts.

Although the Revision 3 SPAR models are certified as acceptable for unrestricted use, nevertheless, we advise analysts to understand the inputs and assumptions inherent in the models and to apply model results giving them due consideration. The Revision 3 SPAR models have been designed to capture the significant risk contributors associated with internal event initiators for plants operating at full power. Therefore, these models may not provide the level of detail necessary to capture the risk from the less significant contributors. Thus, for a particular application, the analyst may obtain results that do not appear to be reasonable. Questions about the model should be directed to Mr. Robert Buell of the Idaho National Engineering and Environmental Laboratory (INEEL) at (208) 526-9400 (buelrf@inel.gov) . Questions about the SAPHIRE code suite should be directed to Mr. Ted Wood, INEEL, at (208) 526-8729 (stw@inel.gov). Comments and suggestions may also be directed to either of these gentlemen or to Dr. Patrick O'Reilly, NRC project manager for SPAR model development, at (301) 415-7570 (pdo@nrc.gov).

J.Fu

2

If you are interested in receiving on-going technical support for SAPHIRE, you are invited to join the SAPHIRE Users' Group. Mr. John Schroeder, INEEL, at (208) 526-8755 (roe@inel.gov) can provide more details about the group and the services offered.

Due to the potential sensitivity of the information contained in the Enclosures, they are not publicly available.

Sincerely,

/RA/

Scott F. Newberry, Director
Division of Risk Analysis and Applications
Office of Nuclear Regulatory Research

Enclosures: As stated

cc: B. Benney, NRR/LPD4-2 (w/o enclosures)

If you are interested in receiving on-going technical support for SAPHIRE, you are invited to join the SAPHIRE Users' Group. Mr. John Schroeder, INEEL, at (208) 526-8755 (roe@inel.gov) can provide more details about the group and the services offered.

Due to the potential sensitivity of the information contained in the Enclosures, they are not publicly available.

Sincerely,

/RA/

Scott F. Newberry, Director
 Division of Risk Analysis and Applications
 Office of Nuclear Regulatory Research

Enclosures: As stated

cc: B. Benney, NRR/LPD4-2 (w/o enclosures)

Distribution w/o enclosures:

OERAB RF	PWilson, NRR (SRA)
DRAA RF	CCarpenter, NRR
File Center	DCoe, NRR
Public	WRuland, NRR
JStrosnider/AThadani, RES	AHowell, RGN-IV
DMarksberry, RES	TPruett, RGN-IV (SRA)
SDembek, NRR	DLoveless, RGN-IV (SRA)
MJohnson, NRR	GReplogle, RGN-IV (SRI)

DOCUMENT NAME: A:\COLUMBIAGENERATINGSTATIONLTR.WPD

To receive a copy of this document, indicate in the box "C" = Copy w/encl "E" = Copy w/encl "N" = No copy y

OFFICE	OERAB	E	OERAB	E	OERAB	C	OERAB	C	DRAA	C
NAME	EGoldfeiz*		PO'Reilly*		MCheck*		PBaranowsky*		SNewberry*	
DATE	2/6/03		2/6/03		2/6/03		2/6/03		2/6/03	

OFFICIAL RECORD COPY

OAR in ADAMS (Y or N)?	Y	Publicly Available (Y or N)?	Y
------------------------	---	------------------------------	---

Template No.: RES-006

Accession No.: _____

Res File Code: 2C-3

ROUTING AND TRANSMITTAL SLIP				Date 02/05/2003	
TO: (Name, office symbol, room #, building, agency/post)				Initials	Date
1. Eli Goldfeiz - Concur - Fill in Y or N for OAR in ADAMS and Publicly Available				EBG	2/6
2. Pat O'Reilly - Concur				PDO	2/6
3. Mike Cheek - Concur				MCC	2/6
4. Pat Baranowsky - Concur				MCC for PWB	2/6
5. Scott Newberry - Signature				SFN	2/6
6. Nancy - Distribute - Fill in Template Number, Accession Number and RES Code Number				NLL	2/6
7.					
8.					
9.					
10.					
	Action		File		Note and Return
	Approval		For Clearance		Per Conversation
	As Requested		For Correction		Prepare Reply
	Circulate		For Your Information		See Me
	Comment		Investigate	X	Concurrence/Signature
	Coordination		Justify		
REMARKS					
<p>Letter to Mr. J.Fu - Per your request, enclosed is a compact disk containing the Level 1, Revision 3 Standardized Plant Analysis Risk (SPAR) model for Columbia Generating Station and the SAPHIRE 6.75 suite of probabilistic risk assessment (PRA) computer codes. Also enclosed is a copy of the user's manual for the Columbia Generating Station SPAR model.</p>					
FROM: (Name, org. symbol, Agency/Post)				Room # - Bldg.	
				Phone #	