

**PHILADELPHIA ELECTRIC COMPANY**

2301 MARKET STREET

P.O. BOX 8699

PHILADELPHIA, PA. 19101

(215) 841-4000

October 22, 1982

Docket Nos. 50-277  
50-278

Mr. M. B. Fairtile, Project Manager  
330-B, Phillips Building  
U.S. Nuclear Regulatory Commission  
7920 Norfolk Avenue  
Bethesda, MD 20014

Dear Mr. Fairtile:

Enclosed is information requested by the NRC staff in a telephone conversation on October 8, 1982 regarding the licensee's Fire Protection Safe Shutdown Report transmitted on June 28, 1982 (S. L. Daltroff to D. G. Eisenhut). The information consists of eighteen marked up drawings and a raceway list of the cable spreading room. We are available to meet with the staff to review this material and the Safe Shutdown Report at their convenience. Presently, our consultants are reviewing the Peach Bottom fire protection features with the purpose of finalizing the design details of the proposed modifications identified in the Safe Shutdown Report. If the staff's schedule permits, we would appreciate the opportunity of discussing the results of the consultant's evaluation prior to the issuance of the staff's final SER. Please advise us of their schedule for completing the draft SER on the Peach Bottom Safe Shutdown Report. The following provides an explanation of the enclosed material:

1. The safe shutdown analysis was performed simultaneously for both Units due to the sharing of the diesels and some support equipment. The color codes on the prints are as follows:

Method A - Yellow - Unit 2 and common cables  
Pink - Unit 3 cables

Method B - Green - Unit 2 and common cables  
Blue - Unit 3 cables

*Aperture Card Dist*

*Asob Drawings*

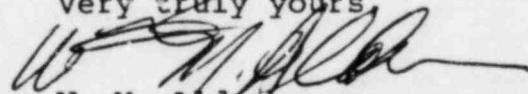
*To: BC*

The four colors were selected by our Design Division for their convenience, however, the pink and yellow representing method A must be compared against the blue and green representing method B. Methods A and B are as described in the June, 1982 submittal, on page 1-1.

2. In most locations, the prints show some instances of both methods' cables in the same raceways; i.e., Print E-1162, in section GH-19, tray ZD2MB00 shows both green and yellow cables. These marked-up prints are from the initial stages of the analysis; in all cases, we are preparing to remove one of the two methods' cables from the shared raceways and rout in either separate fire zones or in encapsulated raceways. These prints have not been adjusted to indicate this.
3. The outlines of the fire zones can be obtained from the Architectural Drawings in the June, 1982 submittal.
4. The only room of concern in fire zone 72A is on elevation 165' at the remote shutdown panel area, print E-1191. The cables in the remainder of this zone are scheduled to be rerouted or encapsulated to bring them into full compliance with the requirements of Section III.G.2. (Refer to page 3.4 of the June, 1982 submittal).

Should you need additional information, please do not hesitate to contact me.

Very truly yours,



W. M. Alder  
Engineer-in-Charge  
Nuclear Section  
Generation Division

WCB:k mw

Enclosure

cc: M. J. Cooney  
Engineering, Planning and Management, Inc.  
W. C. Birely  
W. J. Mindick

FIRE PROTECTION INFORMATION  
INDEX

Drawings: Raceway Layout

E-1161	Reactor Building, Unit 2, Area 7, El. 91'-6"
E-1162	Reactor Building, Unit 2, Area 8, El. 91'6"
E-1231	Reactor Building, Unit 3, Area 15, El. 91'-6"
E-1232	Reactor Building, Unit 3, Area 16, El. 91'-6"
E-1165	Reactor Building, Unit 2, Area 7, El. 135'
E-1166	Reactor Building, Unit 2, Area 8, El. 135'
E-1167	Reactor Building, Unit 2, Area 7, El. 165'
E-1168	Reactor Building, Unit 2, Area 8, El. 165'
E-1235	Reactor Building, Unit 3, Area 15, El. 135'
E-1236	Reactor Building, Unit 3, Area 16, El. 135'
E-1237	Reactor Building, Unit 3, Area 15, El. 165'
E-1238	Reactor Building, Unit 3, Area 16, El. 165'
E-1191	Radwaste Building, Area 10, El. 165'
E-1141	Turbine Building, Area 3, El. 150'
E-2008	Turbine Building, Area 3, El. 165', sheet 1 of 2
E-2008	Turbine Building, Area 3, El. 165', sheet 2 of 2
E-1008	Pump Structure, Unit 3
E-2008	Pump Structure, Unit 2

Cable Spreading Room raceway list: 10 sheets

CALCULATION SHEET  
PHILADELPHIA ELECTRIC CO.

NAME GN CAMPBELL

LOCATION P.B.A.P.S.

UNIT # 2

DATE 8 MAR 82 SHEET NO. \_\_\_\_\_

SUBJECT HOT "A" CABLE SPREADING RM.

JOB/CA NO. 1077-5323

RACEWAY No.	CONT. ON DWG.	RACEWAY No.	CONT. ON DWG.	RACEWAY No.	CONT. ON DWG.
ZA25001		ZA25417	E-1140	ZC25454	
ZA25003		ZA25485	E-1188	ZC2Y3011	
ZA25004		ZA25502	E-1140	ZD25035	
ZA25005		ZA25507	E-1147	ZD25036	
ZA25006		ZA25624	E-1188	ZD25048	
ZA25007		ZA25635		ZD25056	
ZA25009		ZA2Y3008		ZD25065	
ZA25014		ZA2Y3015		ZD25068	
ZA25058		ZB2R200	E-1188	ZD25183	E-1188
ZA25069		ZB2R202	E-1188	ZD25511	E-1147
ZA25070		ZB25495		ZD25529	
ZA25073		ZC2B1247	E-1140	ZD25561	E-1188
ZA25074		ZC2D388	E-1140	ZA2CVO10	E-1140
ZA25082		ZC25028		ZA2ST410	
ZA25119		ZC25029		ZA2WA010	
ZA25123		ZC25030		ZA2WA020	
ZA25152		ZC25032		ZA2WA030	
ZA25153		ZC25033		ZA2WA035	
ZA25201		ZC25035	CONT. RM (20C03)	ZA2WA040	
ZA25207		ZC25036	CONT. RM (20C03)	ZA2WA045	
ZA25208		ZC25037		ZA2WA050	
ZA25213		ZC25038		ZA2WA060	
ZA25215		ZC25039		ZA2WA070	
ZA25218		ZC25057		ZA2WA080	
ZA25282		ZC25061		ZA2WA090	
ZA25286	E-1188	ZC25064		ZA2WCO20	
ZA25287	E-1188	ZC25085		ZA2WCO30	
ZA25288	E-1188	ZC25150		ZA2WCO35	
ZA25289	E-1188	ZC25151		ZA2WCO40	
ZA25377		ZC25199		ZA2WCO45	
ZA25378		ZC25200		ZA2WCO50	
ZA25389		ZC25223	CONT. RM (20C04)	ZA2WCO60	
ZA25390		ZC25390		ZA2WCO70	
ZA25451		ZC25394	CONT. RM (00C29C)	ZA2WE010	E-1188

CALCULATION SHEET  
PHILADELPHIA ELECTRIC CO.

LOCATION P.B.A.P.S.

NAME G.N. CAMPBELL

UNIT # 2

SUBJECT HOT "A" CABLE SPREADING RM.

DATE 10 MAR 82 SHEET NO. \_\_\_\_\_

JOB/CA NO. 1077-5323

RACEWAY No.	CONT. ON DWG.	RACEWAY No.	CONT. ON DWG.	RACEWAY No.	CONT. ON DWG.
ZA2WFO10	E-1188	ZD2SH010	E-1186		
ZA2WK		ZD2VA030			
ZA2WK020		ZD2VA035			
ZA2WK060		ZD2VA040			
ZA2WK080		ZD2VA050			
ZA2WV		ZD2VC030			
ZA2ZJ020		ZD2VC035			
ZC2CV030	E-1140	ZD2VC040			
ZC2ST350		ZD2VC050			
ZC2ZUQ		ZD2VC053			
ZC2XA010		ZD2VC056			
ZC2XA020		ZD2VF050			
ZC2XA030		ZD2VG			
ZC2XA040					
ZC2XA050					
ZC2XA060					
ZC2XA070					
ZC2XA080					
ZC2XA090					
ZC2XA100					
ZC2XC010					
ZC2XC020					
ZC2XC030					
ZC2XC040					
ZC2XC050					
ZC2XC060					
ZC2XC070					
ZC2XC080					
ZC2XC090					
ZC2XC100					
ZC2XK010	E-1188				
ZC2XK020					
ZC2XL010	E-1188				
ZC2XL020					

CALCULATION SHEET  
PHILADELPHIA ELECTRIC CO.

NAME G. N. CAMPBELL

LOCATION P. B. A. P. S.

UNIT # 2

DATE 16 MAR 82 SHEET NO. \_\_\_\_\_

SUBJECT HOT "B" CABLE SPREADING ROOM

JOB/CA NO. 1077-5323

RACEWAY No.	CONT. ON DWG.	RACEWAY No.	CONT. ON DWG.	RACEWAY No.	CONT. ON DWG.
ZA2R016	E-1188	ZB2S226		ZB2Y3010	
ZA2S071		ZB2S246		ZB2Y3016	
ZA2S075	Cont. Room	ZB2S247		ZD2B1248	E-1140
ZA2S550		ZB2S252		ZD2D394	E-1140
ZA2S551		ZB2S253		ZD2S040	
ZA2S552		ZB2S254		ZD2S041	
ZB2B1250	E-1140	ZB2S255		ZD2S042	
ZB2D393	E-1140	ZB2S256		ZD2S043	
ZB2D924	E-1140	ZB2S257		ZD2S045	
ZB2N489		ZB2S258		ZD2S048	
ZB2S011		ZB2S260		ZD2S049	
ZB2S012		ZB2S265		ZD2S065	
ZB2S013		ZB2S266		ZD2S068	
ZB2S014		ZB2S268		ZD2S083	
ZB2S015		ZB2S269		ZD2S093	
ZB2S016		ZB2S270		ZD2S156	
ZB2S017		ZB2S277	E-1140	ZD2S157	
ZB2S018		ZB2S336		ZD2S219	
ZB2S019		ZB2S380		ZD2S272	
ZB2S020		ZB2S381		ZD2S395	E-1147
ZB2S021		ZB2S391		ZD2S396	E-1147
ZB2S023		ZB2S392	E-1147	ZD2S398	
ZB2S026		ZB2S403	CONT. RM. E-1188	ZD2S455	
ZB2S027		ZB2S424	CONT. RM. E-1188	ZD2S569	
ZB2S053		ZB2S430		ZD2S570	
ZB2S054		ZB2S431		ZA2WC030	
ZB2S131		ZB2S433	CONTROL RM.	ZA2WC035	
ZB2S132		ZB2S472	E-1188	ZA2WC040	
ZB2S157		ZB2S472A	E-1188	ZA2WC045	
ZB2S154		ZB2S475	CONTROL RM.	ZA2WC050	
ZB2S155		ZB2S476		ZA2WFO10	E-1188
ZB2S159		ZB2S484		ZB2CVO20	E-1140
ZB2S184	E-1188	ZB2S510	E-1147	ZB2SKO10	E-1186
ZB2S221		ZB2S596		ZB2SP	

**CALCULATION SHEET**  
PHILADELPHIA ELECTRIC CO.

LOCATION P.B.A.P.S.

NAME G.N. CAMPBELL

UNIT # 2

DATE 24 MAR 82 SHEET NO. \_\_\_\_\_

SUBJECT HOT "B" CABLE SPREADING ROOM

JOB/CA NO. 1077-5323

RACEWAY No.	CONT. ON DWG.	RACEWAY No.	CONT. ON DWG.	RACEWAY No.	CONT. ON DWG.
ZB2SS		ZD2VA056			
ZB2ST020		ZD2VA060			
ZB2ST030		ZD2VA070			
ZB2ST040		ZD2VA080			
ZB2ST050		ZD2VA090			
ZB2ST210		ZD2VA100			
ZB2TA010		ZD2VA110			
ZB2TA020		ZD2VC020			
ZB2TA030		ZD2VC030			
ZB2TA040		ZD2VC035			
ZB2TA045		ZD2VC040			
ZB2TA050		ZD2VC050			
ZB2TA060		ZD2VC053			
ZB2TA070		ZD2VC056			
ZB2TA080		ZD2VC060			
ZB2TA090		ZD2VC070			
ZB2TA100		ZD2VC080			
ZB2TA150		ZD2VC090			
ZB2TB010		ZD2VC100			
ZB2TB020		ZD2VC110			
ZB2TB030		ZD2VF050			
ZB2TB040		ZD2VFI40			
ZB2TB045		ZD2VG			
ZD2CV040	E-1140				
ZD2MM320	E-1186				
ZD2MN320	E-1186				
ZD2SH010	E-1186				
ZD2URO10					
ZD2VA020					
ZD2VA030					
ZD2VA035					
ZD2VA040					
ZD2VA050					
ZD2VA053					

CALCULATION SHEET

PHILADELPHIA ELECTRIC CO.

LOCATION UNIT #3 - C.S.R. - E-1154 -

NAME P.L. SCHAUMBERG

SUBJECT HOT "A" CONDUITS

DATE 17-MAR-82 SHEET NO.

JOB/CA NO. 1077-5323

RACEWAY No.	CONT. ON DWG.	RACEWAY No.	CONT. ON DWG.	RACEWAY No.	CONT. ON DWG.
ZA3D379	E-1140	ZA3T201	E-1147	ZD3S432	---
ZA3D693	E-1140	ZA3T202	E-1147	ZD3S433	---
ZA3M1076	E-1238	ZA3Y3007	---	ZD3S434	---
ZA3M951	E-1188	ZA3Y3008	---	ZD3S445	E-1188
ZA35011	---				
ZA35021	E-1188	ZB3R200	E-1188		
ZA35022	E-1188	ZB3R202	E-1188		
ZA35024	E-1186	ZB3S007	---		
ZA35025	---				
EA35027	---	ZC3D388	E-1140		
ZA35041	---	ZC3S003	---		
ZA35043	---	ZC3S005	---		
ZA35045	---	ZC3S016	---		
ZA35046	---	ZC3S017	---		
ZA35047	---	ZC3S019	---		
ZA35050	---	ZC3S021	---		
ZA35051	---	ZC3S023	---		
ZA35074	---	ZC3S024	---		
ZA35075	---	ZC3S025	---		
ZA35076	---	ZC3S051	---		
ZA35105	---	ZC3S105	---		
ZA35107	---	ZC3S106	---		
ZA35124	---	ZC3S123	---		
ZA35125	---	ZC3S131	---		
ZA35126	---	ZC3S132	---		
ZA35141	---	ZC3S144	E-1188		
ZA35145	E-1188	ZC3T200	E-1147		
ZA35147	E-1188	ZC3Y012	---		
ZA35149	E-1188	ZC3Y015	---		
ZA35150	E-1188				
ZA35165	---	ZD3P100	E-1188		
ZA3S429	E-1147	ZD3S103	---		
ZA3S502	E-1140	ZD3S136	---		
ZA3S642	E-1188	ZD3S431	E-1147		



CALCULATION SHEET

PHILADELPHIA ELECTRIC CO.

LOCATION UNIT #3 - C.S.R. - E-1141-

NAME P.L. SCHUMBERG

SUBJECT HOT 'A' TRAYS

DATE 31 MAR 82 SHEET NO. 1

JOB/CA NO. 1077-5323

RACEWAY No.	CONT. ON DWG.	RACEWAY No.	CONT. ON DWG.	RACEWAY No.	CONT. ON DWG.
ZA3MA01	E-1186	ZA3VA35	---	ZA3VC36	---
ZA3MA91	---	↑ 36	---	↑ 37	---
ZA3MA92	---	37	---	38	---
ZA3MB01	E-1186	38	---	39	---
ZA3MB91	---	39	---	40	---
ZA3MB92	---	40	---	41	---
ZA3MB93	---	41	---	42	---
ZA3MB94	---	42	---	43	---
ZA3VA03	---	↓ ZA3VA43	---	44	---
↑ 04	---	ZA3VC05	---	45	---
05	---	↑ 06	---	46	---
06	---	07	---	EA3VC47	---
07	---	08	---	ZA3VJ	---
08	---	15	---	ZA3W	---
15	---	16	---	ZAZK02	---
16	---	17	---		
17	---	18	---		
18	---	19	---	ZC3PA07	E-1186
19	---	20	---	↑ 15	---
20	---	21	---	16	---
21	---	22	---	17	---
22	---	23	---	18	---
23	---	24	---	19	---
24	---	25	---	20	---
25	---	26	---	21	---
26	---	27	---	22	---
27	---	28	---	23	---
28	---	29	---	24	---
29	---	30	---	25	---
30	---	31	---	26	---
31	---	32	---	27	---
32	---	33	---	82	---
33	---	34	---	↓ 83	---
↓ ZA3VA34	---	ZA3VC35	---	ZC3PA84	---
				* ZC3PA28	---

# CALCULATION SHEET

PHILADELPHIA ELECTRIC CO.

NAME P.L. SCHAMBERG

LOCATION UNIT # 3 - C.S.R. - E-1141 -

DATE 1-APR-82 SHEET NO. 2

SUBJECT HOT "A" TRAYS

JOB/CA NO. 1077-5323

RACEWAY No.	CONT. ON DWG.	RACEWAY No.	CONT. ON DWG.	RACEWAY No.	CONT. ON DWG.
EC3PB07	E-1186	ED3QB01	---	ED3WC33	---
15	---	02	E-1188	ED3WC34	---
16	---	03	E-1188		
17	---	20	---		
18	---	21	---		
19	---	22	---		
20	---	23	---		
21	---	ED3QB23	---		
22	---	ED3W206	---		
23	---	07	---		
24	---	08	---		
82	---	09	---		
83	---	10	---		
EC3PB84		11	---		
EC3PVO2	E-1140	12	---		
EC3SS		13	---		
EC3TA06		14	---		
07	---	15	---		
08	---	16	---		
09	---	17	---		
10	---	18	---		
11	---	19	---		
18	---	20	---		
19	---	21	---		
20	---	22	---		
21	---	23	---		
22	---	24	---		
23	---	25	---		
24	---	26	---		
25	---	27	---		
26	---	28	---		
27	---	29	---		
EC3TA28		30	---		
		31	---		
		ED3WC32	---		

CALCULATION SHEET

PHILADELPHIA ELECTRIC CO.

NAME P.L. SCHAUMBERG

LOCATION UNIT #3 - C.S.R. - E-1154 -

DATE 1-APR-82 SHEET NO. \_\_\_\_\_

SUBJECT HOT "B" CONDUITS

JOB/CA NO. 1077-5323

RACEWAY No.	CONT. ON DWG.	RACEWAY No.	CONT. ON DWG.	RACEWAY No.	CONT. ON DWG.
ZB3M536	E-1188	ZB3S115	---	ZD3S441	---
ZB3M537	E-1188	ZB3S121	---	ZD3S442	E-1206
ZB3S011	---	ZB3S133	---	ZD3S606	---
ZB3S046	---	ZB3S137	---	* ZD3Y5014	---
ZB3S113	---	ZB3S138	---	ZD3Y3016	---
ZB3S510	---	ZB3S139	---	* ZD3S608	E-1147
ZB3S511	E-1147	ZB3S143	---		
ZB3S512	---	ZB3S256	---		
ZB3S513	---	ZB3S260	---		
ZB3S514	---	ZB3S430	---		
		ZB3S432	E-1147		
ZB3D393	E-1140	ZB3S505	---		
ZB3D692	E-1140	ZB3S506	---		
ZB3D785	E-1206	ZB3S630	E-1147		
ZB3L367	E-1188				
ZB3L368	E-1188	ZD3D394	E-1140		
ZB3M759	---	ZD3S001	---		
ZB3N455	E-1186	ZD3S002	---		
ZB3S015	---	ZD3S003	---		
ZB3S033	---	ZD3S004	---		
ZB3S036	---	ZD3S025	---		
ZB3S037	---	ZD3S027	---		
ZB3S038	---	ZD3S028	---		
ZB3S044	---	ZD3S029	---		
ZB3S045	---	ZD3S030	---		
ZB3S053	---	ZD3S031	---		
ZB3S054	---	ZD3S032	---		
ZB3S062	---	ZD3S052	---		
ZB3S072	---	ZD3S102	---		
ZB3S073	---	ZD3S103	---		
ZB3S084	---	ZD3S110	---		
ZB3S085	---	ZD3S111	---		
ZB3S086	---	ZD3S136	---		
ZB3S092	---	ZD3S139	---		

# CALCULATION SHEET

PHILADELPHIA ELECTRIC CO.

NAME P.L. SCHAUMBERG

LOCATION UNIT #3 - C.S.P. - E-1141 -

DATE 8-APR-82 SHEET NO. 1

SUBJECT HOT "B" TRAYS

JOB/CA NO. 1077-5323

RACEWAY No.	CONT. ON DWG.	RACEWAY No.	CONT. ON DWG.	RACEWAY No.	CONT. ON DWG.
ZB3MB01	E-1186	ZB3NB21	---	ZB3XC06	---
ZB3MB91	---	ZB3NV03	E-1140	07	---
ZB3MB92	---	ZB3ST35	---	08	---
ZB3MB94	---	ZB3UK02	---	09	---
ZB3VA03	---	ZB3XA01	---	10	---
↑ 04	---	↑ 02	---	11	---
05	---	03	---	12	---
06	---	04	---	13	---
07	---	05	---	14	---
15	---	06	---	15	---
16	---	07	---	16	---
17	---	08	---	17	---
18	---	09	---	18	---
19	---	10	---	19	---
20	---	11	---	20	---
21	---	12	---	21	---
22	---	13	---	22	---
23	---	14	---	23	---
24	---	15	---	24	---
25	---	16	---	25	---
26	---	17	---	26	---
27	---	18	---	27	---
28	---	19	---	↓ ZB3XC28	---
↓ ZB3VA29	---	20	---	ZD3QA01	---
ZB3NA01	---	21	---	ZD3QA02	E-1188
ZB3NA02	---	22	---	↑ 20	---
ZB3NA03	E-1188	23	---	21	---
ZB3NA20	---	24	---	22	---
ZB3NA21	---	↓ ZB3XA25	---	↓ ZD3QA23	---
ZB3NB01	---	ZB3XC01	---	ZD3QB01	---
ZB3NB02	---	↑ 02	---	↑ 02	E-1188
ZB3NB03	E-1188	03	---	↓ 20	---
ZB3NB20	---	↓ 04	---	ZD3QB21	---
		ZB3XC05	---		

# CALCULATION SHEET

PHILADELPHIA ELECTRIC CO.

NAME P.L. SCHWAMBECK

LOCATION UNIT #3 - CSR. - E-1141 -

DATE 12-1-82 SHEET NO. 7

SUBJECT HOT "B" TRAYS

JOB/CA NO. 1077-5323

RACEWAY No.	CONT. ON DWG.	RACEWAY No.	CONT. ON DWG.	RACEWAY No.	CONT. ON DWG.
ED3QB22		ED3WC04			
ED3QB23		↑ 05			
ED3QV02	E-1140	06			
ED3WA03		07			
↑ 04		08			
05		09			
06		10			
07		11			
08		12			
09		13			
10		14			
11		15			
12		16			
13		17			
14		18			
15		19			
16		20			
17		21			
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26		30			
27		31			
28		32			
29		33			
30		↓ ED3WC34			
31		ED3WV			
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