

CCN No. ~~XX-E-013~~-004-CN001

FORM APF-05D-001-02, REV. 07A

CALCULATION DATABASE INPUT	004 7/50/13 37 8E Page 2 002 END 2/01 CCN NO. XX-E-013
	Base Calc No. Rev No. Sequence No.

Handwritten:
10/24/15

Link systems to the calculation/CCN in EIS.	
Systems Affected:	PA, PG
Develop relationships between interdependent calculations in EIS.	
Additional Calculations Providing Input to this calculation:	None
Additional Calculations Impacted by this calculation:	None
Develop relationships between the calculation/CCN and controlled reference documents in EIS.	
Additional Controlled Documents Inputs to this calculation:	None
Additional Controlled Documents Impacted by this calculation:	None
The reference documents listed below are those that cannot be linked to the calculation/CCN and shall be entered in the INDUSTRY REFERENCE field in EIS, e.g., ASME-Codes, ANSI Standards, letters, etc.	
Additional Other Reference Documents:	None
Link components to the calculation/CCN in EIS.	
Additional Components:	

REFER TO DESKTOP GUIDE FOR PROCESSING CALCULATIONS IN EIS

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LIST OF EFFECTIVE PAGES	CCN NO. <u>XX-E-013</u> Page 3 11/24/15 Base Calc No. <u>007</u> CN01201 Rev No. <u>007</u> 01 Sequence No.
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CCN Page No.	Calc. Page Affected /DVR/SCRN/ Other	CCN Page No.	Calc. Page Affected /DVR/SCRN/ Other	CCN Page No.	Calc. Page Affected /DVR/SCRN/ Other	CCN Page No.	Calc. Page Affected /DVR/SCRN/ Other
4	ATTACHMENT 2 <i>APPENDIX 5</i> <i>11/24/15</i>						
5	ATTACHMENT 2 Page 89 <i>BRF</i>	4/11/10					
6	ATTACHMENT 2 Page 10 11	<i>BRF</i> 4/13/10					
7	ATTACHMENT 2 Page 12 12	<i>BRF</i> 4/13/10					
8	APPENDIX 3 Page 100 103	<i>BRF</i> 4/13/10					
9	APPENDIX 3 Page 107 105	<i>BRF</i> 4/13/10					
A-1 to A-4	DVR						

DVR = Design Verification Report (if applicable)
 SCRN = Regulatory Screening (if applicable)
 AD = Applicability Determination

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CALCULATION SHEET

CCN NO.

~~XX-E-013~~

004

CND01

Base Calc No.

Rev No.

Sequence No.

3.0 BRF Page 4
1/15/13

APPENDIX 5 10/24/15

Attachment 2 Table B is being revised as shown on the attached table. The changes, as well as justification for these changes, are described below.

1. Page ~~8~~ ^{9 BRF 4/13/10} - Changed the end device for cables 15PGG02AA and 15PGG02AB from PG1500 to TB43331 due to relocating these cable terminations.
2. Page ~~10~~ ^{11 BRF 4/13/10} - Changed the end device for cable 16PGG03AA from PG1600 to TB43332 due to relocating this cable termination.
3. Page ~~11~~ ^{12 BRF 4/13/10} - Changed the end device for cable 16PGG03AB from PG1600 to TB43332 due to relocating this cable termination.

Appendix 3 - PFSSD Component List is being revised as shown on the attached table. The changes, as well as justification for these changes, are described below.

1. Page ~~100~~ ^{103 BRF 4/13/10} - For component PG1200, updated the description and power source to reference the new power supply established by DCP 11607.
2. Page ~~101~~ ^{105 BRF 4/13/10} - Deleted components PG15, PG1500, PG16, and PG1600 because these components are no longer required to support any PFSSD circuits/functions.
3. Page ~~101~~ ^{105 BRF 4/13/10} - For component PG1900, updated the description and power source to reference the new power supply established by DCP 11607.

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CALCULATION SHEET	CCN NO. XX-E-013 <i>3</i>	Page 6
	Base Calc No. 0022	Rev No. EN01201 <i>7/30/13</i>

APPENDIX 5 *10/21/15*

The following are changes to ATTACHMENT 2 - MSIV & REDUNDANT CABLE ANALYSIS,
 TABLE B - CABLE ROUTING FOR COMPONENTS DOWNSTREAM OF MSIVs AND MSIV BYPASS VALVES
 CABLE ROUTING FOR COMPONENTS DOWNSTREAM OF MSIVs AND MSIV BYPASS VALVES

CABLE	SYS. (Note)	COMP.	A							C							CC 1	TURB	T		NOTES						
			8	16	19	21	22	27	9	10	11	15	17	21	22	23			24	27		30	31	33	1	2	
16FCK09BA	5	PK3215 FC168																					X				
16FCK09BD	5	FCHIS0118 RP142												X				X					X				
16FCK09BE	5	FC168 RP142																								X	
16FCY08CA	3	FCHV0103 RL023												X				X						X	X		FCHY0103 FCHIS0103
16FCY08CB	3	FCLSH0103 RL023												X				X						X	X		FCHY0103 FCHIS0103
16MRK10AA	3	PK6216 MA104D																						X			ABLY0050 ABLY0052
16MRK10AD	3	PK6216 MA104D																						X			ABLY0050 ABLY0052
16PAK14AA	2, 3, 6, 7	PK6204 PA0210																						X	X		ABLV0050 ABLV0052 ABHIS0050 ABHIS0052 ABHV0032 ABHIS0032 ABHV0046 FBHV0080 FBHS0082 ABHIS0046
16PAK14AB	2, 3, 6, 7	PK6204 PA0210																						X	X		ABLV0050 ABLV0052 ABHIS0050 ABHIS0052 ABHV0032 ABHIS0032 ABHV0046 FBHV0080 FBHS0082 ABHIS0046
16PGG03AA	2, 6	PA0205 TB43332 PG1600																						X			ABHIS0032 ABHV0032 ABHV0046 FBHIS0082 FBHV0080

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	Base Calc No. 00126 <i>1130113</i>	Rev No. 1130113 <i>1130113</i>
	Sequence No. CN01201	

APPENDIX 5 10/24/15

The following are changes to ATTACHMENT 2 - MSIV & REDUNDANT CABLE ANALYSIS,
 TABLE B - CABLE ROUTING FOR COMPONENTS DOWNSTREAM OF MSIVs AND MSIV BYPASS VALVES
CABLE ROUTING FOR COMPONENTS DOWNSTREAM OF MSIVs AND MSIV BYPASS VALVES

CABLE	SYS. (Note)	COMP.	A							C										CC 1	TURB	T		NOTES				
			8	16	19	21	22	27	9	10	11	15	17	21	22	23	24	27	30			31	33		1	2		
16PGG03AB	2, 6	PG1600 TB43332 PG1200																							X			ABHIS0032 ABHV0032 ABHV0046 FBHIS0082 FBHV0080
16PGG03AF	2, 6	PG1207 PG12KAF6																							X			ABHIS0032 ABHV0032 ABHV0046 FBHIS0082 FBHV0080
16PGG03AG	2, 6	PG1207 PG12KAF8																							X			ABHIS0032 ABHV0032 ABHV0046 FBHIS0082 FBHV0080
16PGG04AA	3	PA0207 PG1400																							X			ABLY0050 ABLY0052
16PGG04AB	3	PG1400 PG2400					X															X						ABLY0050 ABLY0052
16PGG04AC	3	PG2400 PG2000					X																					ABLY0050 ABLY0052
16PGG04AQ	3	PG2008 PG20GAF1		X			X																					ABLY0050 ABLY0052
16PGG04AR	3	PG2008 PG20GAF1		X			X																					ABLY0050 ABLY0052
16PKG11BA	5	NG0409 PK22								X																	X	FCHIS0118 FCHY0118A
16PKK02AA	5	PK12 (WEST) PK0201																									X	FCHIS0118 FCHY0118A
16PKK02AB	5	PK12 (EAST) PK0201																									X	FCHIS0118 FCHY0118A
16PKK02AC	5	PK22 PK0202								X																	X	FCHIS0118 FCHY0118A
16PKK02AD	5	PK12 (EAST) PK12 (WEST)																									X	FCHIS0118 FCHY0118A
16PKK02AE	5	PK0203 PK3200																									X	FCHIS0118 FCHY0018A
16PKK02AF	5	PK0203 PK3200																									X	FCHIS0118 FCHY0018A

