

VOLTAGE REGULATION CALCULATIONS
BALANCED LOAD - SINGLE PHASE

Made By: John Schullist Date: 6/12/12
Checked By: Paul Hunt Date: 8-6-12

SUPPLY POINT CC-Z
CIRCUIT NO.: 1
VOLTAGE: 240
WIRE SIZE: #4

SECTION		LGTH	LOAD IN AMPS		WIRE	CIRCUITS OHMS/MFT		0.308		VOLTAGE
FROM	TO	FEET	AT POINT	ACCUM	SIZE	AMP	VOLTAGE DROP	PER		AT LOAD
						FEET	SECTION	ACCUM	CENT	
CC-V	PIER 3	450	44.00	44.0		39600	12.20	12.20	5.08	227.8
				0.0		0	0.00	12.20	5.08	227.8
				0.0		0	0.00	12.20	5.08	227.8
				0.0		0	0.00	12.20	5.08	227.8
				0.0		0	0.00	12.20	5.08	227.8
				0.0		0	0.00	12.20	5.08	227.8
				0.0		0	0.00	12.20	5.08	227.8
				0.0		0	0.00	12.20	5.08	227.8
				0.0		0	0.00	12.20	5.08	227.8
				0.0		0	0.00	12.20	5.08	227.8
				0.0		0	0.00	12.20	5.08	227.8
				0.0		0	0.00	12.20	5.08	227.8
				0.0		0	0.00	12.20	5.08	227.8
				0.0		0	0.00	12.20	5.08	227.8
				0.0		0	0.00	12.20	5.08	227.8
				0.0		0	0.00	12.20	5.08	227.8
				0.0		0	0.00	12.20	5.08	227.8
				0.0		0	0.00	12.20	5.08	227.8
				0.0		0	0.00	12.20	5.08	227.8
				0.0		0	0.00	12.20	5.08	227.8
				0.0		0	0.00	12.20	5.08	227.8
				0.0		0	0.00	12.20	5.08	227.8
				0.0		0	0.00	12.20	5.08	227.8
				0.0		0	0.00	12.20	5.08	227.8

VA Load 10560 PERCENT DROP 5.08%

VOLTAGE REGULATION CALCULATIONS
BALANCED LOAD - SINGLE PHASE

Made By: John Helalut Date: 6/12/12
 Checked By: Paul Hents Date: 8-6-12

SUPPLY POINT CC-Z
 CIRCUIT NO.: 2
 VOLTAGE: 240
 WIRE SIZE: #4

SECTION	LGTH	LOAD IN AMPS	WIRE	AMPS	CIRCUITS OHMS/MFT	0.308	VOLTAGE				
FROM	TO	FEET	AT POINT	ACCUM	SIZE	FEET	SECTION	ACCUM	PER	CENT	AT LOAD
CC-V	PIER 4	800	44.00	44.0		70400		21.68	21.68	9.03	218.3
				0.0		0		0.00	21.68	9.03	218.3
				0.0		0		0.00	21.68	9.03	218.3
				0.0		0		0.00	21.68	9.03	218.3
				0.0		0		0.00	21.68	9.03	218.3
				0.0		0		0.00	21.68	9.03	218.3
				0.0		0		0.00	21.68	9.03	218.3
				0.0		0		0.00	21.68	9.03	218.3
				0.0		0		0.00	21.68	9.03	218.3
				0.0		0		0.00	21.68	9.03	218.3
				0.0		0		0.00	21.68	9.03	218.3
				0.0		0		0.00	21.68	9.03	218.3
				0.0		0		0.00	21.68	9.03	218.3
				0.0		0		0.00	21.68	9.03	218.3
				0.0		0		0.00	21.68	9.03	218.3
				0.0		0		0.00	21.68	9.03	218.3
				0.0		0		0.00	21.68	9.03	218.3
				0.0		0		0.00	21.68	9.03	218.3
				0.0		0		0.00	21.68	9.03	218.3
				0.0		0		0.00	21.68	9.03	218.3
				0.0		0		0.00	21.68	9.03	218.3
				0.0		0		0.00	21.68	9.03	218.3
				0.0		0		0.00	21.68	9.03	218.3

VA Load 10560 PERCENT DROP 9.03%

VOLTAGE REGULATION CALCULATIONS
BALANCED LOAD - SINGLE PHASE

Made By: John Schaffert Date: 6/12/12
 Checked By: Paul Hunt Date: 8-6-12

SUPPLY POINT CC-Z
 CIRCUIT NO.: 3
 VOLTAGE: 240
 WIRE SIZE: #2

SECTION FROM	SECTION TO	LGTH FEET	LOAD IN AMPS AT POINT	ACCUM	WIRE SIZE	AMPS FEET	CIRCUITS OHMS/MFT	VOLTAGE DROP SECTION	ACCUM	PER CENT	VOLTAGE AT LOAD
CC-V	PIER 5	1190	44.00	44.0		104720	0.194	20.32	20.32	8.46	219.7
				0.0		0		0.00	20.32	8.46	219.7
				0.0		0		0.00	20.32	8.46	219.7
				0.0		0		0.00	20.32	8.46	219.7
				0.0		0		0.00	20.32	8.46	219.7
				0.0		0		0.00	20.32	8.46	219.7
				0.0		0		0.00	20.32	8.46	219.7
				0.0		0		0.00	20.32	8.46	219.7
				0.0		0		0.00	20.32	8.46	219.7
				0.0		0		0.00	20.32	8.46	219.7
				0.0		0		0.00	20.32	8.46	219.7
				0.0		0		0.00	20.32	8.46	219.7
				0.0		0		0.00	20.32	8.46	219.7
				0.0		0		0.00	20.32	8.46	219.7
				0.0		0		0.00	20.32	8.46	219.7
				0.0		0		0.00	20.32	8.46	219.7
				0.0		0		0.00	20.32	8.46	219.7
				0.0		0		0.00	20.32	8.46	219.7
				0.0		0		0.00	20.32	8.46	219.7
				0.0		0		0.00	20.32	8.46	219.7
				0.0		0		0.00	20.32	8.46	219.7

VA Load 10560 PERCENT DROP 8.46%

VOLTAGE REGULATION CALCULATIONS
BALANCED LOAD - SINGLE PHASE

Made By: *John Schallert* Date: *6/12/12*
 Checked By: *Paul Hunter* Date: *8-6-12*

SUPPLY POINT CC-Z
 CIRCUIT NO.: 4
 VOLTAGE: 240
 WIRE SIZE: #2

SECTION		LGTH	LOAD IN AMPS		WIRE	AMP	CIRCUITS OHMS/MFT		0.194	
FROM	TO	FEET	AT POINT	ACCUM	SIZE	FEET	SECTION	ACCUM	PER	VOLTAGE
									CENT	AT LOAD
CC-V	PIER 6	1570	44.00	44.0		138160	26.80	26.80	11.17	213.2
				0.0		0	0.00	26.80	11.17	213.2
				0.0		0	0.00	26.80	11.17	213.2
				0.0		0	0.00	26.80	11.17	213.2
				0.0		0	0.00	26.80	11.17	213.2
				0.0		0	0.00	26.80	11.17	213.2
				0.0		0	0.00	26.80	11.17	213.2
				0.0		0	0.00	26.80	11.17	213.2
				0.0		0	0.00	26.80	11.17	213.2
				0.0		0	0.00	26.80	11.17	213.2
				0.0		0	0.00	26.80	11.17	213.2
				0.0		0	0.00	26.80	11.17	213.2
				0.0		0	0.00	26.80	11.17	213.2
				0.0		0	0.00	26.80	11.17	213.2
				0.0		0	0.00	26.80	11.17	213.2
				0.0		0	0.00	26.80	11.17	213.2
				0.0		0	0.00	26.80	11.17	213.2
				0.0		0	0.00	26.80	11.17	213.2
				0.0		0	0.00	26.80	11.17	213.2
				0.0		0	0.00	26.80	11.17	213.2
				0.0		0	0.00	26.80	11.17	213.2

VA Load 10560

PERCENT DROP

11.17%

VOLTAGE REGULATION CALCULATIONS
BALANCED LOAD - SINGLE PHASE

Made By: John Scallut Date: 6/12/12
 Checked By: Paul Hunter Date: 8-6-12

SUPPLY POINT CC-V
 CIRCUIT NO.: 2
 VOLTAGE: 240
 WIRE SIZE: #4

SECTION FROM	TO	LGTH FEET	LOAD IN AMPS		WIRE SIZE	AMP FEET	CIRCUITS OHMS/MFT		PER CENT	VOLTAGE AT LOAD
			AT POINT	ACCUM			VOLTAGE DROP SECTION	ACCUM		
CC-V	PIER 9	480	44.00	44.0		42240	13.01	13.01	5.42	227.0
				0.0		0	0.00	13.01	5.42	227.0
				0.0		0	0.00	13.01	5.42	227.0
				0.0		0	0.00	13.01	5.42	227.0
				0.0		0	0.00	13.01	5.42	227.0
				0.0		0	0.00	13.01	5.42	227.0
				0.0		0	0.00	13.01	5.42	227.0
				0.0		0	0.00	13.01	5.42	227.0
				0.0		0	0.00	13.01	5.42	227.0
				0.0		0	0.00	13.01	5.42	227.0
				0.0		0	0.00	13.01	5.42	227.0
				0.0		0	0.00	13.01	5.42	227.0
				0.0		0	0.00	13.01	5.42	227.0
				0.0		0	0.00	13.01	5.42	227.0
				0.0		0	0.00	13.01	5.42	227.0
				0.0		0	0.00	13.01	5.42	227.0
				0.0		0	0.00	13.01	5.42	227.0
				0.0		0	0.00	13.01	5.42	227.0
				0.0		0	0.00	13.01	5.42	227.0
				0.0		0	0.00	13.01	5.42	227.0
				0.0		0	0.00	13.01	5.42	227.0
				0.0		0	0.00	13.01	5.42	227.0
				0.0		0	0.00	13.01	5.42	227.0
				0.0		0	0.00	13.01	5.42	227.0
				0.0		0	0.00	13.01	5.42	227.0
				0.0		0	0.00	13.01	5.42	227.0

VA Load 10560 PERCENT DROP 5.42%

VOLTAGE REGULATION CALCULATIONS
BALANCED LOAD - SINGLE PHASE

Made By: John Adalbert Date: 6/12/12
Checked By: Paul Hunt Date: 8-6-12

SUPPLY POINT CC-V
CIRCUIT NO.: 3
VOLTAGE: 240
WIRE SIZE: #2

SECTION		LGTH	LOAD IN AMPS		WIRE SIZE	CIRCUITS OHMS/MFT		PER CENT	VOLTAGE AT LOAD
FROM	TO	FEET	AT POINT	ACCUM		AMP FEET	VOLTAGE DROP		
CC-V	PIER 7	800	44.00	44.0		70400	13.66	13.66	226.3
				0.0		0	0.00	13.66	226.3
				0.0		0	0.00	13.66	226.3
				0.0		0	0.00	13.66	226.3
				0.0		0	0.00	13.66	226.3
				0.0		0	0.00	13.66	226.3
				0.0		0	0.00	13.66	226.3
				0.0		0	0.00	13.66	226.3
				0.0		0	0.00	13.66	226.3
				0.0		0	0.00	13.66	226.3
				0.0		0	0.00	13.66	226.3
				0.0		0	0.00	13.66	226.3
				0.0		0	0.00	13.66	226.3
				0.0		0	0.00	13.66	226.3
				0.0		0	0.00	13.66	226.3
				0.0		0	0.00	13.66	226.3
				0.0		0	0.00	13.66	226.3
				0.0		0	0.00	13.66	226.3
				0.0		0	0.00	13.66	226.3
				0.0		0	0.00	13.66	226.3
				0.0		0	0.00	13.66	226.3
				0.0		0	0.00	13.66	226.3
				0.0		0	0.00	13.66	226.3
				0.0		0	0.00	13.66	226.3

VA Load 10560

PERCENT DROP

5.69%

VOLTAGE REGULATION CALCULATIONS
BALANCED LOAD - SINGLE PHASE

Made By: John Falcetti Date: 6/12/12
Checked By: Paul Hunter Date: 8-6-12

SUPPLY POINT CC-V
CIRCUIT NO.: 4
VOLTAGE: 240
WIRE SIZE: #2

SECTION FROM	SECTION TO	LGTH FEET	LOAD IN AMPS AT POINT	AMPS ACCUM	WIRE SIZE	AMP FEET	CIRCUITS OHMS/MFT	VOLTAGE DROP SECTION	VOLTAGE DROP ACCUM	PER CENT	VOLTAGE AT LOAD
CC-V	PIER 7	1150	44.00	44.0		101200	0.194	19.63	19.63	8.18	220.4
				0.0		0		0.00	19.63	8.18	220.4
				0.0		0		0.00	19.63	8.18	220.4
				0.0		0		0.00	19.63	8.18	220.4
				0.0		0		0.00	19.63	8.18	220.4
				0.0		0		0.00	19.63	8.18	220.4
				0.0		0		0.00	19.63	8.18	220.4
				0.0		0		0.00	19.63	8.18	220.4
				0.0		0		0.00	19.63	8.18	220.4
				0.0		0		0.00	19.63	8.18	220.4
				0.0		0		0.00	19.63	8.18	220.4
				0.0		0		0.00	19.63	8.18	220.4
				0.0		0		0.00	19.63	8.18	220.4
				0.0		0		0.00	19.63	8.18	220.4
				0.0		0		0.00	19.63	8.18	220.4
				0.0		0		0.00	19.63	8.18	220.4
				0.0		0		0.00	19.63	8.18	220.4
				0.0		0		0.00	19.63	8.18	220.4
				0.0		0		0.00	19.63	8.18	220.4
				0.0		0		0.00	19.63	8.18	220.4
				0.0		0		0.00	19.63	8.18	220.4

VA Load 10560 PERCENT DROP 8.18%