

DOCKETED

Docket Number:	13-AFC-01
Project Title:	Alamitos Energy Center
TN #:	201620-71
Document Title:	AEC AFC Appendix 5.15A Drainage Basins
Description:	Previously TN# 201494-11
Filer:	Tiffani Winter
Organization:	CH2M Hill
Submitter Role:	Applicant Consultant
Submission Date:	2/3/2014 12:47:11 PM
Docketed Date:	2/3/2014

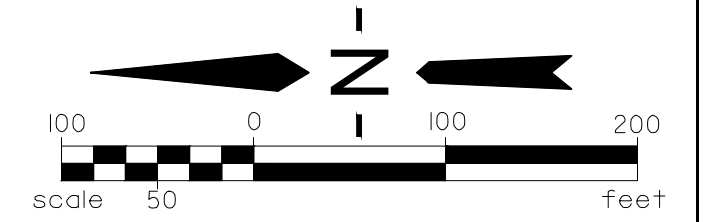
Appendix 5.15A
Developed Drainage Plan



LEGEND

- - - - - EXISTING MINOR CONTOUR
- . - . - EXISTING MAJOR CONTOUR
- PROPERTY BOUNDARY
- EX STORM DRAIN TO REMAIN
- EXISTING BASIN BOUNDARY
- BASIN NAME
- A 58 | 16 1/4 AC BASIN AREA
- △ 1 DESIGN POINT
- DRAINAGE FLOW ARROW

Basin	Peak Flow	
	10-year	50-year
	CFS	CFS
EX1	14.3	22.5
EX2	3.7	5.8
EX3	25.6	40.2
EX4	12.6	19.8
EX5	9.0	14.1
EX6	1.0	1.5
EX7	8.2	12.9
EX8	8.3	13.0
EX9	1.6	2.4
Existing Total	84.2	132.3



2/4/2013 4:07 PM - P:\PTP\POVRY\120280\3-final-dsgn\51-drawings\Production Drawings\Historic Drainage Basins.dwg

REV	DATE	DESCRIPTION	DWN	DGN	CHK	APP
	2/4/2013	PEC COMMENTS	TAN	TAN	RDC	RDC
	12/20/2012	EQUIPMENT RELOCATIONS	TAN	TAN	RDC	RDC
A	6/26/2012	AIR PERMIT SUBMITTAL	TAN	TAN	AP	RDC

SCALE: AS NOTED

WARNING: IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

D SIZE 36"x24"

Power Engineers Collaborative, L.L.C.

600 W. Jackson Blvd. Suite 600 Chicago, Illinois 60661

150 North Sunny Slope Road Suite 110 Brookfield, Wisconsin 53005

WWW.PECLLC.COM

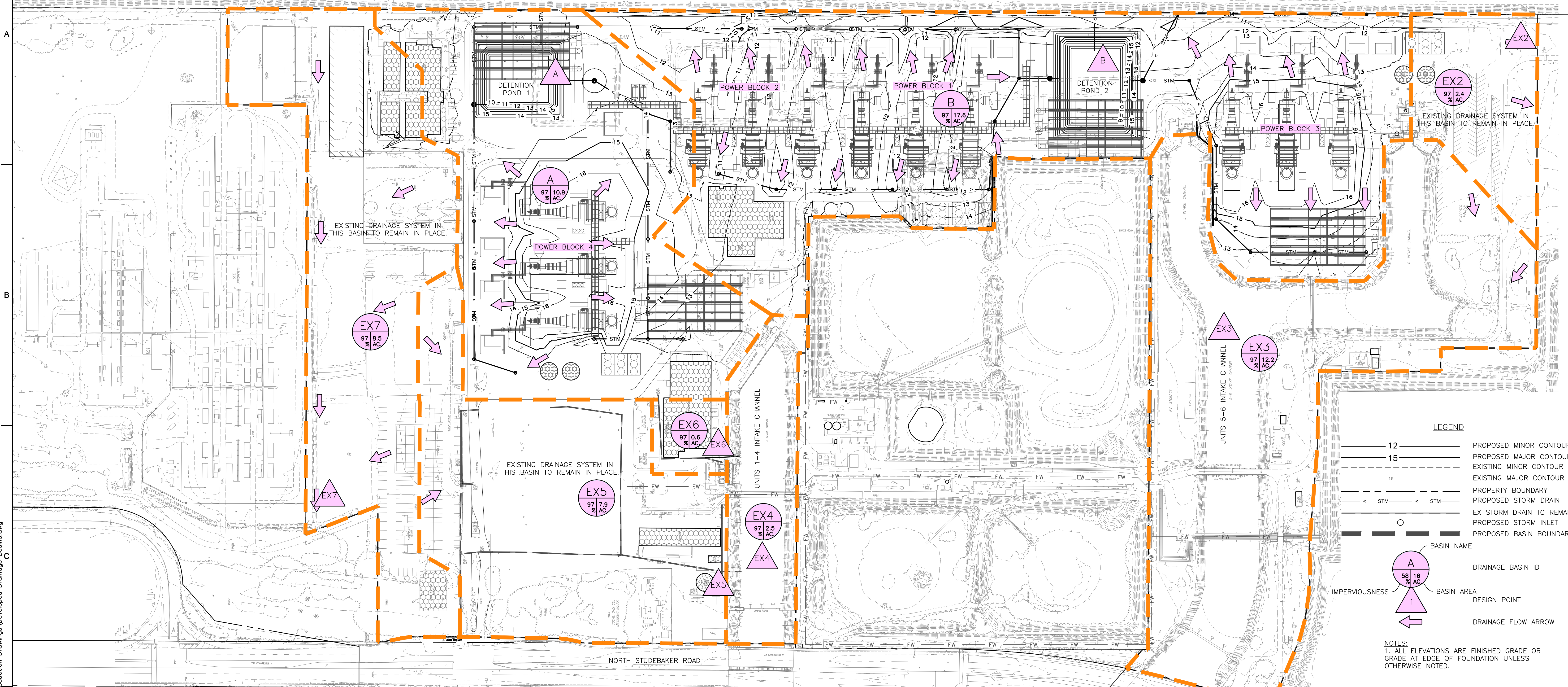
LOS ALAMOS ENERGY PROJECT
LONG BEACH, CA.

HISTORIC DRAINAGE BASINS

DWG# EDR_120280

REV. A

SAN GABRIEL RIVER



LEGEND

- 12 ——— PROPOSED MINOR CONTOUR
- 15 ——— PROPOSED MAJOR CONTOUR
- - - - - EXISTING MINOR CONTOUR
- - - - - EXISTING MAJOR CONTOUR
- — — — — PROPERTY BOUNDARY
- < STM < STM ——— PROPOSED STORM DRAIN
- ——— EX STORM DRAIN TO REMAIN
- ——— PROPOSED STORM INLET
- — — — — PROPOSED BASIN BOUNDARY

BASIN NAME

DRAINAGE BASIN ID

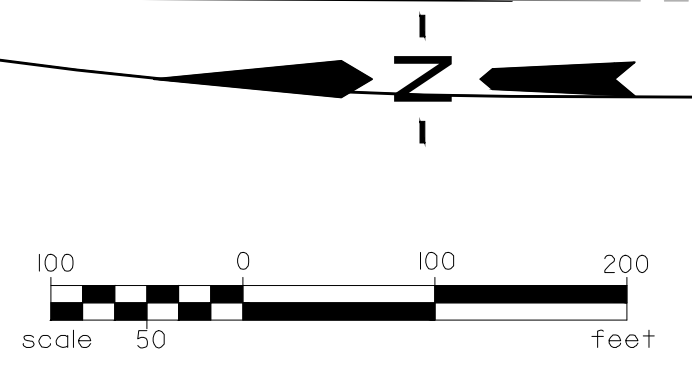
BASIN AREA

DESIGN POINT

IMPERVIOUSNESS

DRAINAGE FLOW ARROW

NOTES:
 1. ALL ELEVATIONS ARE FINISHED GRADE OR GRADE AT EDGE OF FOUNDATION UNLESS OTHERWISE NOTED.



Basin	Peak Flow	
	10-year	50-year
	CFS	CFS
EX2	3.7	5.8
EX3	25.6	40.2
EX4	12.6	19.8
EX5	9.0	14.1
EX6	1.0	1.5
EX7	8.2	12.9
A	12.8	20.1
B	19.2	30.2
Proposed Total	92.1	144.7

2/4/2013 4:07 PM - P:\PT\PO\RY\120280\3-final-dsgn\51-drawings\Production Drawings\Developed Drainage Basins.dwg

REV	DATE	DESCRIPTION	DWN	DGN	CHK	APP
	2/4/2013	PEC COMMENTS	TAN	TAN	RDC	RDC
	12/20/2012	EQUIPMENT RELOCATIONS	TAN	TAN	RDC	RDC
	6/26/2012	AIR PERMIT SUBMITTAL	TAN	TAN	AP	RDC

SCALE: AS NOTED

WARNING: IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

D SIZE 36"x24"

Power Engineers Collaborative, L.L.C.

600 W. Jackson Blvd. Suite 600 Chicago, Illinois 60661

150 North Sunny Slope Road Suite 110 Brookfield, Wisconsin 53005

WWW.PECLLC.COM

LOS ALAMITOS ENERGY PROJECT
LONG BEACH, CA.

DEVELOPED DRAINAGE BASINS

DWG# PDR_120280

REV. A

Los Angeles County
 Rational Method - Time of Concentration
 Project name: AES Power Plant - Los Alamitos
 Design Storm: 10-yr
 24-hour Precipitation: 3.43

Computed: TAN Date: 6/20/2012
 Checked: Date:

Basin EX1 Length **500**
 Imperviousness **0.02** Elev. Diff **2.5**
 Area **62.6** Slope **0.005**

Iteration Number	I_{1440} (in/hr)	Initial T_c (min)	I_t/I_{1440}	I_t (in/hr)	C_u	C_d	$C_d * I$ (in/hr)	Calculated T_c (min)	Difference (min)
1	0.14	46.32	5.03	0.72	0.10	0.12	0.08	46.32	0.00
2	0.14	46.32	5.03	0.72	0.10	0.12	0.08	46.32	0.00
3	0.14	46.32	5.03	0.72	0.10	0.12	0.08	46.32	0.00

Q_{PEAK} (cfs) = 5.2

Basin A Length **500**
 Imperviousness **0.97** Elev. Diff **2.5**
 Area **62.6** Slope **0.005**

Iteration Number	I_{1440} (in/hr)	Initial T_c (min)	I_t/I_{1440}	I_t (in/hr)	C_u	C_d	$C_d * I$ (in/hr)	Calculated T_c (min)	Difference (min)
1	0.14	11.53	9.67	1.38	0.21	0.88	1.21	11.53	0.00
2	0.14	11.53	9.67	1.38	0.21	0.88	1.21	11.53	0.00
3	0.14	11.53	9.67	1.38	0.21	0.88	1.21	11.53	0.00

Q_{PEAK} (cfs) = 76.0

Basin EX1 Length **2,100**
 Imperviousness **0.97** Elev. Diff **3.0**
 Area **20.3** Slope **0.0014**

Iteration Number	I_{1440} (in/hr)	Initial T_c (min)	I_t/I_{1440}	I_t (in/hr)	C_u	C_d	$C_d * I$ (in/hr)	Calculated T_c (min)	Difference (min)
1	0.14	36.17	5.65	0.81	0.10	0.88	0.71	36.17	0.00
2	0.14	36.17	5.65	0.81	0.10	0.88	0.71	36.17	0.00
3	0.14	36.17	5.65	0.81	0.10	0.88	0.71	36.17	0.00

Q_{PEAK} (cfs) = 14.3

Los Angeles County
 Rational Method - Time of Concentration

Computed: TAN
 Checked:

Date: 6/20/2012
 Date:

Project name: AES Power Plant - Los Alamitos

Design Storm: 10-yr

24-hour Precipitation: 3.43

Basin EX2 Length **250**
 Imperviousness **0.97** Elev. Diff **2.0**
 Area **2.4** Slope **0.008**

Iteration Number	I_{1440} (in/hr)	Initial T_c (min)	I_t/I_{1440}	I_t (in/hr)	C_u	C_d	$C_d * I$ (in/hr)	Calculated T_c (min)	Difference (min)
1	0.14	6.80	12.39	1.77	0.27	0.88	1.56	6.80	0.00
2	0.14	6.80	12.39	1.77	0.27	0.88	1.56	6.80	0.00
3	0.14	6.80	12.39	1.77	0.27	0.88	1.56	6.80	0.00

Q_{PEAK} (cfs) = 3.7

Basin EX3 Length **100**
 Imperviousness **0.97** Elev. Diff **1.0**
 Area **12.2** Slope **0.01**

Iteration Number	I_{1440} (in/hr)	Initial T_c (min)	I_t/I_{1440}	I_t (in/hr)	C_u	C_d	$C_d * I$ (in/hr)	Calculated T_c (min)	Difference (min)
1	0.14	3.63	16.64	2.38	0.37	0.88	2.10	3.63	0.00
2	0.14	3.63	16.64	2.38	0.37	0.88	2.10	3.63	0.00
3	0.14	3.63	16.64	2.38	0.37	0.88	2.10	3.63	0.00

Q_{PEAK} (cfs) = 25.6

Basin EX4 Length **10**
 Imperviousness **0.97** Elev. Diff **1.0**
 Area **2.5** Slope **0.1**

Iteration Number	I_{1440} (in/hr)	Initial T_c (min)	I_t/I_{1440}	I_t (in/hr)	C_u	C_d	$C_d * I$ (in/hr)	Calculated T_c (min)	Difference (min)
1	0.14	0.55	40.41	5.77	0.64	0.89	5.15	0.55	0.00
2	0.14	0.55	40.42	5.77	0.64	0.89	5.15	0.55	0.00
3	0.14	0.55	40.43	5.77	0.64	0.89	5.15	0.55	0.00

Q_{PEAK} (cfs) = 12.6

Los Angeles County
 Rational Method - Time of Concentration

Computed: TAN
 Checked:

Date: 6/20/2012
 Date:

Project name: AES Power Plant - Los Alamitos

Design Storm: 10-yr

24-hour Precipitation: 3.43

Basin EX5 Length **800**
 Imperviousness **0.97** Elev. Diff **10.0**
 Area **7.9** Slope **0.0125**

Iteration Number	I_{1440} (in/hr)	Initial T_c (min)	I_t/I_{1440}	I_t (in/hr)	C_u	C_d	$C_d * I$ (in/hr)	Calculated T_c (min)	Difference (min)
1	0.14	13.23	9.06	1.29	0.19	0.88	1.14	13.23	0.00
2	0.14	13.23	9.06	1.29	0.19	0.88	1.14	13.23	0.00
3	0.14	13.23	9.06	1.29	0.19	0.88	1.14	13.23	0.00

Q_{PEAK} (cfs) = 9.0

Basin EX6 Length **215**
 Imperviousness **0.97** Elev. Diff **1.0**
 Area **0.6** Slope **0.0047**

Iteration Number	I_{1440} (in/hr)	Initial T_c (min)	I_t/I_{1440}	I_t (in/hr)	C_u	C_d	$C_d * I$ (in/hr)	Calculated T_c (min)	Difference (min)
1	0.14	6.80	12.39	1.77	0.29	0.88	1.56	6.80	0.00
2	0.14	6.80	12.39	1.77	0.29	0.88	1.56	6.80	0.00
3	0.14	6.80	12.39	1.77	0.29	0.88	1.56	6.80	0.00

Q_{PEAK} (cfs) = 1.0

Basin EX7 Length **1,000**
 Imperviousness **0.97** Elev. Diff **4.0**
 Area **8.5** Slope **0.004**

Iteration Number	I_{1440} (in/hr)	Initial T_c (min)	I_t/I_{1440}	I_t (in/hr)	C_u	C_d	$C_d * I$ (in/hr)	Calculated T_c (min)	Difference (min)
1	0.14	18.71	7.70	1.10	0.15	0.88	0.97	18.71	0.00
2	0.14	18.71	7.70	1.10	0.15	0.88	0.96	18.71	0.00
3	0.14	18.71	7.70	1.10	0.15	0.88	0.96	18.71	0.00

Q_{PEAK} (cfs) = 8.2

Los Angeles County
 Rational Method - Time of Concentration

Computed: TAN
 Checked:

Date: 6/20/2012
 Date:

Project name: AES Power Plant - Los Alamitos

Design Storm: 10-yr

24-hour Precipitation: 3.43

Basin EX8 Length **700**
 Imperviousness **0.97** Elev. Diff **3.0**
 Area **7.6** Slope **0.0043**

Iteration Number	I_{1440} (in/hr)	Initial T_c (min)	I_t/I_{1440}	I_t (in/hr)	C_u	C_d	$C_d * I$ (in/hr)	Calculated T_c (min)	Difference (min)
1	0.14	14.71	8.62	1.23	0.18	0.88	1.08	14.71	0.00
2	0.14	14.71	8.62	1.23	0.18	0.88	1.08	14.71	0.00
3	0.14	14.71	8.62	1.23	0.18	0.88	1.08	14.71	0.00

Q_{PEAK} (cfs) = 8.3

Basin EX9 Length **50**
 Imperviousness **0.97** Elev. Diff **0.5**
 Area **0.6** Slope **0.01**

Iteration Number	I_{1440} (in/hr)	Initial T_c (min)	I_t/I_{1440}	I_t (in/hr)	C_u	C_d	$C_d * I$ (in/hr)	Calculated T_c (min)	Difference (min)
1	0.14	2.33	20.50	2.93	0.45	0.89	2.60	2.33	0.00
2	0.14	2.33	20.51	2.93	0.45	0.89	2.60	2.33	0.00
3	0.14	2.33	20.51	2.93	0.45	0.89	2.60	2.33	0.00

Q_{PEAK} (cfs) = 1.6

Basin A Length **600**
 Imperviousness **0.97** Elev. Diff **4.0**
 Area **10.9** Slope **0.0067**

Iteration Number	I_{1440} (in/hr)	Initial T_c (min)	I_t/I_{1440}	I_t (in/hr)	C_u	C_d	$C_d * I$ (in/hr)	Calculated T_c (min)	Difference (min)
1	0.14	12.31	9.38	1.34	0.20	0.88	1.18	12.31	0.00
2	0.14	12.31	9.38	1.34	0.20	0.88	1.18	12.31	0.00
3	0.14	12.31	9.38	1.34	0.20	0.88	1.18	12.31	0.00

Q_{PEAK} (cfs) = 12.8

Los Angeles County
 Rational Method - Time of Concentration

Computed: **TAN**
 Checked:

Date: **6/20/2012**
 Date:

Project name: AES Power Plant - Los Alamitos

Design Storm: 10-yr

24-hour Precipitation: 3.43

Basin B Length **800**
 Imperviousness **0.97** Elev. Diff **6.0**
 Area **17.6** Slope **0.0075**

Iteration Number	I_{1440} (in/hr)	Initial T_c (min)	I_t/I_{1440}	I_t (in/hr)	C_u	C_d	$C_d * I$ (in/hr)	Calculated T_c (min)	Difference (min)
1	0.14	14.49	8.68	1.24	0.19	0.88	1.09	14.49	0.00
2	0.14	14.49	8.68	1.24	0.19	0.88	1.09	14.49	0.00
3	0.14	14.49	8.68	1.24	0.19	0.88	1.09	14.49	0.00

Q_{PEAK} (cfs) = 19.2

Los Angeles County
 Rational Method - Time of Concentration
 Project name: AES Power Plant - Los Alamitos
 Design Storm: 50-yr
 24-hour Precipitation: 4.80

Computed: TAN Date: 6/20/2012
 Checked: Date:

Basin EX1 Length **500**
 Imperviousness **0.02** Elev. Diff **2.5**
 Area **62.6** Slope **0.005**

Iteration Number	I_{1440} (in/hr)	Initial T_c (min)	I_t/I_{1440}	I_t (in/hr)	C_u	C_d	$C_d * I$ (in/hr)	Calculated T_c (min)	Difference (min)
1	0.20	23.41	6.93	1.39	0.21	0.22	0.31	23.41	0.00
2	0.20	23.41	6.93	1.39	0.21	0.22	0.31	23.41	0.00
3	0.20	23.41	6.93	1.39	0.21	0.22	0.31	23.41	0.00

Q_{PEAK} (cfs) = 19.4

Basin A Length **500**
 Imperviousness **0.97** Elev. Diff **2.5**
 Area **62.6** Slope **0.005**

Iteration Number	I_{1440} (in/hr)	Initial T_c (min)	I_t/I_{1440}	I_t (in/hr)	C_u	C_d	$C_d * I$ (in/hr)	Calculated T_c (min)	Difference (min)
1	0.20	9.12	10.80	2.16	0.37	0.88	1.91	9.12	0.00
2	0.20	9.12	10.80	2.16	0.37	0.88	1.91	9.12	0.00
3	0.20	9.12	10.80	2.16	0.37	0.88	1.91	9.12	0.00

Q_{PEAK} (cfs) = 119.5

Basin EX1 Length **2,100**
 Imperviousness **0.97** Elev. Diff **3.0**
 Area **20.3** Slope **0.0014**

Iteration Number	I_{1440} (in/hr)	Initial T_c (min)	I_t/I_{1440}	I_t (in/hr)	C_u	C_d	$C_d * I$ (in/hr)	Calculated T_c (min)	Difference (min)
1	0.20	28.64	6.30	1.26	0.19	0.88	1.11	28.64	0.00
2	0.20	28.64	6.30	1.26	0.19	0.88	1.11	28.64	0.00
3	0.20	28.64	6.30	1.26	0.19	0.88	1.11	28.64	0.00

Q_{PEAK} (cfs) = 22.5

Los Angeles County
 Rational Method - Time of Concentration

Computed: TAN
 Checked:

Date: 6/20/2012
 Date:

Project name: AES Power Plant - Los Alamitos

Design Storm: 50-yr

24-hour Precipitation: 4.80

Basin EX2 Length **250**
 Imperviousness **0.97** Elev. Diff **2.0**
 Area **2.4** Slope **0.008**

Iteration Number	I_{1440} (in/hr)	Initial T_c (min)	I_t/I_{1440}	I_t (in/hr)	C_u	C_d	$C_d * I$ (in/hr)	Calculated T_c (min)	Difference (min)
1	0.20	5.38	13.83	2.77	0.43	0.89	2.45	5.38	0.00
2	0.20	5.38	13.84	2.77	0.43	0.89	2.45	5.38	0.00
3	0.20	5.38	13.84	2.77	0.43	0.89	2.45	5.38	0.00

Q_{PEAK} (cfs) = 5.8

Basin EX3 Length **100**
 Imperviousness **0.97** Elev. Diff **1.0**
 Area **12.2** Slope **0.01**

Iteration Number	I_{1440} (in/hr)	Initial T_c (min)	I_t/I_{1440}	I_t (in/hr)	C_u	C_d	$C_d * I$ (in/hr)	Calculated T_c (min)	Difference (min)
1	0.20	2.87	18.59	3.72	0.52	0.89	3.30	2.87	0.00
2	0.20	2.87	18.58	3.72	0.52	0.89	3.30	2.87	0.00
3	0.20	2.87	18.58	3.72	0.52	0.89	3.30	2.87	0.00

Q_{PEAK} (cfs) = 40.2

Basin EX4 Length **10**
 Imperviousness **0.97** Elev. Diff **1.0**
 Area **2.5** Slope **0.1**

Iteration Number	I_{1440} (in/hr)	Initial T_c (min)	I_t/I_{1440}	I_t (in/hr)	C_u	C_d	$C_d * I$ (in/hr)	Calculated T_c (min)	Difference (min)
1	0.20	0.44	44.88	8.98	0.76	0.90	8.04	0.44	0.00
2	0.20	0.44	45.07	9.01	0.76	0.90	8.07	0.44	0.00
3	0.20	0.44	45.11	9.02	0.76	0.90	8.08	0.43	0.00

Q_{PEAK} (cfs) = 19.8

Los Angeles County
 Rational Method - Time of Concentration
 Project name: AES Power Plant - Los Alamitos

Computed: TAN Date: 6/20/2012
 Checked: Date:

Design Storm: 50-yr
 24-hour Precipitation: 4.80
Basin EX5 Length **800**
 Imperviousness **0.97** Elev. Diff **10.0**
 Area **7.9** Slope **0.0125**

Iteration Number	I_{1440} (in/hr)	Initial T_c (min)	I_t/I_{1440}	I_t (in/hr)	C_u	C_d	$C_d * I$ (in/hr)	Calculated T_c (min)	Difference (min)
1	0.20	10.49	10.11	2.02	0.33	0.88	1.78	10.47	0.02
2	0.20	10.47	10.12	2.02	0.33	0.88	1.79	10.46	0.01
3	0.20	10.46	10.12	2.02	0.33	0.88	1.79	10.46	0.00

Q_{PEAK} (cfs) = 14.1

Basin EX6 Length **215**
 Imperviousness **0.97** Elev. Diff **1.0**
 Area **0.6** Slope **0.0047**

Iteration Number	I_{1440} (in/hr)	Initial T_c (min)	I_t/I_{1440}	I_t (in/hr)	C_u	C_d	$C_d * I$ (in/hr)	Calculated T_c (min)	Difference (min)
1	0.20	5.38	13.83	2.77	0.41	0.89	2.45	5.38	0.00
2	0.20	5.38	13.83	2.77	0.41	0.89	2.45	5.38	0.00
3	0.20	5.38	13.83	2.77	0.41	0.89	2.45	5.38	0.00

Q_{PEAK} (cfs) = 1.5

Basin EX7 Length **1,000**
 Imperviousness **0.97** Elev. Diff **4.0**
 Area **8.5** Slope **0.004**

Iteration Number	I_{1440} (in/hr)	Initial T_c (min)	I_t/I_{1440}	I_t (in/hr)	C_u	C_d	$C_d * I$ (in/hr)	Calculated T_c (min)	Difference (min)
1	0.20	14.81	8.60	1.72	0.27	0.88	1.51	14.81	0.00
2	0.20	14.81	8.60	1.72	0.27	0.88	1.51	14.81	0.00
3	0.20	14.81	8.60	1.72	0.27	0.88	1.51	14.81	0.00

Q_{PEAK} (cfs) = 12.9

Los Angeles County
 Rational Method - Time of Concentration
 Project name: AES Power Plant - Los Alamitos

Computed: TAN Date: 6/20/2012
 Checked: Date:

Design Storm: 50-yr
 24-hour Precipitation: 4.80
Basin EX8 Length **700**
 Imperviousness **0.97** Elev. Diff **3.0**
 Area **7.6** Slope **0.0043**

Iteration Number	I_{1440} (in/hr)	Initial T_c (min)	I_t/I_{1440}	I_t (in/hr)	C_u	C_d	$C_d * I$ (in/hr)	Calculated T_c (min)	Difference (min)
1	0.20	11.64	9.63	1.93	0.31	0.88	1.70	11.64	0.00
2	0.20	11.64	9.63	1.93	0.31	0.88	1.70	11.64	0.00
3	0.20	11.64	9.63	1.93	0.31	0.88	1.70	11.64	0.00

Q_{PEAK} (cfs) = 13.0

Basin EX9 Length **50**
 Imperviousness **0.97** Elev. Diff **0.5**
 Area **0.6** Slope **0.01**

Iteration Number	I_{1440} (in/hr)	Initial T_c (min)	I_t/I_{1440}	I_t (in/hr)	C_u	C_d	$C_d * I$ (in/hr)	Calculated T_c (min)	Difference (min)
1	0.20	1.84	22.91	4.58	0.57	0.89	4.08	1.84	0.00
2	0.20	1.84	22.90	4.58	0.57	0.89	4.08	1.84	0.00
3	0.20	1.84	22.90	4.58	0.57	0.89	4.08	1.84	0.00

Q_{PEAK} (cfs) = 2.4

Basin A Length **600**
 Imperviousness **0.97** Elev. Diff **4.0**
 Area **10.9** Slope **0.0067**

Iteration Number	I_{1440} (in/hr)	Initial T_c (min)	I_t/I_{1440}	I_t (in/hr)	C_u	C_d	$C_d * I$ (in/hr)	Calculated T_c (min)	Difference (min)
1	0.20	9.74	10.47	2.09	0.33	0.88	1.85	9.74	0.00
2	0.20	9.74	10.47	2.09	0.33	0.88	1.85	9.74	0.00
3	0.20	9.74	10.47	2.09	0.33	0.88	1.85	9.74	0.00

Q_{PEAK} (cfs) = 20.1

Los Angeles County
 Rational Method - Time of Concentration
 Project name: AES Power Plant - Los Alamitos
 Design Storm: 50-yr
 24-hour Precipitation: 4.80
Basin B Length **800**
 Imperviousness **0.97** Elev. Diff **6.0**
 Area **17.6** Slope **0.0075**

Computed: TAN Date: 6/20/2012
 Checked: Date:

Iteration Number	I_{1440} (in/hr)	Initial T_c (min)	I_t/I_{1440}	I_t (in/hr)	C_u	C_d	$C_d * I$ (in/hr)	Calculated T_c (min)	Difference (min)
1	0.20	11.46	9.70	1.94	0.32	0.88	1.71	11.46	0.00
2	0.20	11.46	9.70	1.94	0.32	0.88	1.71	11.46	0.00
3	0.20	11.46	9.70	1.94	0.32	0.88	1.71	11.46	0.00

Q_{PEAK} (cfs) = 30.2