March
Monthly Compliance Report

(COC COMPLIANCE-6)
09-AFC-8

Genesis Solar Energy Project
Eastern Riverside County, California

Genesis Solar, LLC

March

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Appendix A 1

Equipment List

Appendix B 1

#	Agency	Pre-con	Const	ops	COC	Title	Description	Responsibility	COC Verification	Internal Due Date	Date Final Due	Date Submitted to Agency	Agency Status	Documentation On Hand Y/N	Internal Comments	Operational On-going Cost
1	CEC	x			AQ-SC1	Air Quality Construction Mitigation Manager (AQCMM) - staff assignment	Assign Air Quality Construction Mitigation Manager	ECM	> 30d pt gd		17-Dec-10	11/16/2010 1/13/11	Approved 12/2/2010		Jessica Auch	
2	CEC		x		AQ-SC1	Air Quality Construction Mitigation Manager (AQCMM) - staff assignment	AQCMM remain onsite to monitor construction activities	ECM	Ongoing						Jessica Auch	
3	CEC	x			AQ-SC2	Air Quality Construction Mitigation Plan (AQCMP)	Prepare Air Quality Construction Mitigation Plan (AQCMP)	ECM	> 30d pt gd		17-Dec-10	23-Nov-10	Approved 12/2/2010			
5	CEC		x		AQ-SC3	Construction Fugitive Dust Control; AQCMM monthly reporting -	AQCMM to submit compliance documentation to the CPM in each Monthly Compliance Report.	ECM	Monthly							
6	CEC		x		AQ-SC3	Construction Fugitive Dust Control; AQCMM monthly reporting -	Implement Dust Control BMPs	ECM			17-Jan-11					
6	CEC		x		AQ-SC3	Construction Fugitive Dust Control; AQCMM monthly reporting -	Stabilize all disturbed areas after construction activities.	ECM	Construction Completion		1-Jul-14					
7	CEC		x		AQ-SC4	Dust Plume Response Requirement	Implement Dust Plume Response Requirement	ECM			17-Jan-11					
7	CEC		x		AQ-SC4	Dust Plume Response Requirement	Submit information on dust plume observations, response, and list of equipment onsite in Monthly Report.	ECM	Monthly		Monthly	Ongoing				
8	CEC		x		AQ-SC4	Dust Plume Response Requirement	Monitor all construction activities for visible dust plumes. If plumes observed, implement mitigation as specified.	ECM	Ongoing							
9	CEC		x		AQ-SC5	Diesel engine emissions - monitoring and reporting	*Implement Diesel-Fueled Engine Control*	ECM	Monthly		17-Jan-11				Should be verified monthly by checking registrations.	
9	CEC		x		AQ-SC5	Diesel engine emissions - monitoring and reporting	Submit compliance documentation in Monthly Compliance Report.	ECM	Monthly		Monthly	Ongoing				
10	CEC		x		AQ-SC5	Diesel engine emissions - monitoring and reporting	AQCMM to inspect and tag all diesel-fueled engines Diesel engines and tier standards - see full text. Do not idle diesel equipment for more than 5 mins.(see full text for exceptions)	ECM	Ongoing		Monthly	Ongoing				
11	CEC			x	AQ-SC6	Fleet Plan for operations vehicles	Update Fleet Plan every other year. Submit the Fleet Plan with Annual Report.	Operations	Bi-Annually		Annual				What is the aniversary date?	
12	CEC		x	x	AQ-SC6	Fleet Plan for operations vehicles	Submit to the CPM a Fleet Plan for vehicles dedicated to mirror washing and maintenance activities.	NEE	> 30d pt operation		31-Mar-13				To meet California On road emission standards	
13	CEC		x		AQ-SC7	Dust Control Plan - Construction	Submit Operations Dust Control Plan.	Operations	> 30d pt operation		31-Mar-13					
14	CEC			x	AQ-SC7	Dust Control Plan - Operations	Implement all requirements of the Operations Dust Control Plan	Operations	Ongoing		Aug					
15	CEC		x	x	AQ-SC7	Dust Control Plan - Operations	Submit report identifying locations of all speed limit signs, and a copy of the training manual.	Operations	< 60d after start of operation		1-Aug-12					
16	CEC	x	x	x	AQ-SC8	Air permit submittals	Submit all modified or revised ATC/PTO documents and all federal air permits.	Fluor	< 15d of receipt							
17	CEC	x	x	x	AQ-SC8	Air permit submittals	Submit copies of District issued Authority to Construct & Permit to Operate Documents.	Fluor	< 5d from date of submittal or receipt			12-Dec-10	Approved 1/17/11			
18	CEC			x	AQ-1	Equipment Operation, Application Requirements - NG boilers	Operate NG boilers in compliance with all data and specifications submitted with application.	Operations	Ongoing							
19	CEC			x	AQ-2	Equipment fuel Use, Manufacturer Specifications - NG boilers	Fuel equipment only with NG. Operate and maintain in accordance with manufacturer recommendations.	Operations	Ongoing							
20	CEC			X	AQ-3	Emissions limits, reporting - NG boilers	Emissions shall not exceed the following hourly emission limits (see full text)	Operations	Ongoing							
21	CEC			x	AQ-3	Emissions limits, reporting - NG boilers	Submit emissions compliance documentation in Annual Compliance Report.	Operations	Annually							
22	CEC			x	AQ-4	Maintenance and Operations Log - NG boilers	Maintain an operations log on-site and current for a minimum of five (5) years.	Operations	Ongoing, 5 yrs							
23	CEC			x	AQ-4	Maintenance and Operations Log - NG boilers	Make the site available to the District, ARB, and the Energy Commission for inspection of records.	Operations	Ongoing							
24	CEC			x	AQ-6	Initial MDAQMD Compliance Test - NG boilers	Submit test results within 180 days of initial start up.	Operations	< 180d after initial start up		28-Oct-13					
25	CEC		x		AQ-6	Initial MDAQMD Compliance Test - NG boilers	Notify agencies within fifteen working days before the initial MDAQMD compliance test.	Operations	< 15d prior to test							
26	CEC			x	AQ-7	Annual MDAQMD Compliance Test - NG boilers	Perform annual MDAQMD compliance tests.	Operations	Annually							
27	CEC			x	AQ-7	Annual MDAQMD Compliance Test - NG boilers	Submit results report to the District no later than six weeks prior to the expiration date of this permit.	Operations	< 6w pt expiration of permit							
					AQ-8		See AQ-9									
28	CEC			x	AQ-9	HTF Ullage/Exp. Tanks - HTF storage	Ullage tanks - This system shall store only HTF.	Operations	Ongoing							
29	CEC			x	AQ-10	HTF Ullage/Exp. Tanks - Carbon absorbtion system	Monitor VOC output, sample weekly. Calibrate FID on day of use. Maintain log of weekly sampling results and keep log onsite. Provide sampling log to District upon request.	Operations	Weekly		1-May-13					
30	CEC			x	AQ-10	HTF Ullage/Exp. Tanks - Carbon absorbtion system	Operate ullage tanks system with the carbon adsorption system. *[VOC and Benzene emissions cap, see full text]*	Operations	Ongoing							
31	CEC			x	AQ-10	HTF Ullage/Exp. Tanks - Carbon absorbtion system	Submit compliance documentation in Annual Compliance Report.	Operations	Annually							
32	CEC			x	AQ-10	HTF Ullage/Exp. Tanks - Carbon absorbtion system	Submit a yearly summary report of all VOC emissions.	Operations	Jan-31 Annually							
33	CEC		x		AQ-10	HTF Ullage/Exp. Tanks - Carbon absorbtion system	Submit a monitoring and change-out plan for the system.	Fluor	pt initial start up		1-Aug-12				Sener specs, Matt McCord	
34	CEC			x	AQ-10	HTF Ullage/Exp. Tanks - Carbon absorbtion system	Submit initial test results within 180 days after startup.	Fluor	< 180d after initial start up		28-Oct-13					
35	CEC		x		AQ-11	HTF Ullage/Exp. Tanks - Inspection, Maintenance and Monitoring Plan	Submit an HTF Ullage/Exp. Tanks vent release Inspection, Maintenance and Monitoring Plan.	Fluor	> 30d pt taking delivery of the HTF		13-Dec-12					
36	CEC		x		AQ-12	HTF Ullage/Exp. Tanks- Inspection, Maintenance and Monitoring Plan	Establish an HTF Piping and Exp Tank Inspection and Maintenance Program. Provide documentation to District staff upon request.	Fluor	> 30d pt taking delivery of the HTF		13-Dec-12					
37	CEC			x	AQ-12	HTF Ullage/Exp. Tanks- Inspection, Maintenance and Monitoring Plan	Make the site available to the District, ARB, and the Energy Commission for inspection of records.	Operations	Ongoing							
38	CEC		x		AQ-12	HTF Ullage/Exp. Tanks- Inspection, Maintenance and Monitoring Plan	Submit to CPM an HTF Ullage/Exp. Tanks - Inspection, Maintenance and Monitoring Plan for review.	Fluor	> 30d pt taking delivery of the HTF		13-Dec-12					
39	CEC			x	AQ-12	HTF Ullage/Exp. Tanks- Inspection, Maintenance and Monitoring Plan	Submit volume of HTF removed and added in Annual Report.	Operations	Annually							
40	CEC		x		AQ-13	HTF Ullage/Exp. Tanks - Compliance Testing Plan and Reporting	Submit a report of test results to the District.	Fluor	< 45d after test							

#	Agency	Pre-con	Const	ops	COC	Title	Description	Responsibility	COC Verification	Internal Due Date	Date Final Due	Date Submitted to Agency	Agency Status	Documentation On Hand Y/N	Internal Comments	Operational On-going Cost
41	CEC		x		AQ-13	HTF Ullage/Exp. Tanks - Compliance Testing Plan and Reporting	Notify District prior to testing.	Fluor	10d prior to test							
42	CEC		x		AQ-13	HTF Ullage/Exp. Tanks - Compliance Testing Plan and Reporting	Provide a written test plan for District review and approval.	Fluor	30d prior to test							
43	CEC			x	AQ-13	HTF Ullage/Exp. Tanks - Compliance Testing Plan and Reporting	Submit to the District a compliance test protocol.	Operations	< 60d after initial start up		29-Jun-13					
44	CEC			x	AQ-14	HTF Ullage/Exp. Tanks - Initial MDAQMD Compliance Testing and Reporting	Perform initial compliance tests in accordance with the MDAQMD Compliance Test Procedural Manual. Submit test report.	Operations	< 180d after initial start up		28-Oct-13					
45	CEC			x	AQ-15	HTF Ullage/Exp. Tanks - Annual MDAQMD Compliance Testing and Reporting	Make the site available to the District, ARB, and the Energy Commission for inspection of records.	Operations	Ongoing							
46	CEC			x	AQ-15	HTF Ullage/Exp. Tanks - Annual MDAQMD Compliance Testing and Reporting	Perform annual compliance tests in accordance with the MDAQMD Compliance Test Procedural Manual.	Operations	Annually							
47	CEC			x	AQ-15	HTF Ullage/Exp. Tanks - Annual MDAQMD Compliance Testing and Reporting	Submit test results and report to the District no later than six weeks prior to the expiration date of this permit.	Operations	< 6w pt expiration of permit							
48	CEC			x	AQ-15	HTF Ullage/Exp. Tanks - Annual MDAQMD Compliance Testing and Reporting	Retain all annual test records for 5 yrs.	Operations	Ongoing, 5 yrs							
49	CEC			x	AQ-16	HTF Ullage/Exp. Tanks - Emission rate caps	Include Ullage/tank emission rate caps compliance documentation in Annual Report.	Operations	Annually							
50	CEC			x	AQ-16	HTF Ullage/Exp. Tanks - Emission rate caps	Maintain emission rates below specified volumes.	Operations	Ongoing							
51	CEC		x	x	AQ-17	HTF Ullage/Exp. Tanks - Regulated Substances	Submit a Compliance Plan of the toxic or hazardous substances if current non-criteria substances in the HTF become regulated as toxic or hazardous substances.	Fluor / Operations	Ongoing							
52	CEC			x	AQ-18	Equipment Operation, Application Requirements - Cooling Towers	Operate cooling towers in compliance with all data and specifications submitted in application.	Operations	Ongoing							
53	CEC			x	AQ-19	Equipment Operation Manufacturer Specifications - Cooling Towers	Operate cooling towers in compliance with all manufacturer specifications.	Operations	Ongoing							
54	CEC			x	AQ-20	Drift Eliminator Monitoring and Reporting - Cooling Towers	Comply with drift rate emissions cap *(see full text)*.	Operations	Ongoing							
55	CEC		x		AQ-20	Drift Eliminator Monitoring and Reporting - Cooling Towers	Submit manufacturer guarantee data for the drift eliminator.	Fluor	> 30d pt cooling tower operation		31-Mar-13					
56	CEC			x	AQ-20	Drift Eliminator Monitoring and Reporting - Cooling Towers	Submit compliance documentation on operating emission rates with Annual Report.	Operations	Annually							
57	CEC		x		AQ-22	Water Testing Protocol - Cooling Tower	Submit a test and emissions calculation protocol.	Fluor	> 30d pt testing							
58	CEC			x	AQ-23	Operating Time Restrictions - Cooling Towers	Submit compliance documentation with Annual Report.	Operations	Annually							
59	CEC			x	AQ-23	Operating Time Restrictions - Cooling Towers	Do not operated for more than 3,200 hours per rolling twelve month period and more than 15 hours per calendar day.	Operations	Ongoing							
60	CEC			x	AQ-24	Maintenance and Operation Log - Cooling Tower	Maintain operations log onsite for 5 years.	Operations	Ongoing							
61	CEC			x	AQ-24	Maintenance and Operation Log - Cooling Tower	Make site available for inspection of records and equipment by representatives of the District, ARB, and the Energy Commission.	Operations	Ongoing							
62	CEC			x	AQ-25	Drift Eliminator Maintenance Procedures	Make available compliance documentation for inspection by representatives of the District, ARB, and the Energy Commission	Operations	Ongoing							
63	CEC			x	AQ-26	Equipment Operation Manufacturer Specifications - 341HP generators	Operate generators in compliance with all manufacturer specifications.	Operations	Ongoing							
64	CEC			x	AQ-27	Fuel Restrictions - 341 HP generators	Use only ultra-low sulfur diesel fuel. Retain fuel purchase records.	Operations	Ongoing							
65	CEC		x		AQ-28	Elapsed Operating Time Meter - 341 HP generators	Install a non-resettable hour meter on the unit to indicate elapsed engine operating time. Submit to District and CPM the specifications of the hour meter.	Fluor	> 30d pt installation							
66	CEC			x	AQ-29	Operating Time Restrictions - 341 HP generators	Use limited to emergency power. Operate no more than 50hr/yr for testing and maintenance.	Operations	Ongoing							
67	CEC			x	AQ-30	Operations and Maintenance log - 341 HP generators	Maintain a operations log for a minimum of two years.	Operations	Ongoing 2 yrs after start of operations							
68	CEC			x	AQ-30	Operations and Maintenance log - 341 HP generators	Make records available to the District for three years.	Operations	Ongoing 3 yrs after start of operations							
69	CEC			x	AQ-30	Operations and Maintenance log - 341 HP generators	Submit compliance documentation in Annual Report.	Operations	Annually							
70	CEC			x	AQ-30	Operations and Maintenance log - 341 HP generators	Make site and records available for inspection by representatives of the District, ARB, and the Energy Commission.	Operations	Ongoing							
71	CEC			x	AQ-31	Voluntary Power Outage Use - 341 HP generators	Do not use generators during a voluntary power outage or reduction.	Operations	Ongoing							
72	CEC			x	AQ-32	Involuntary Power Outage Use - 341 HP generators	Operate generators <30 minutes pt ordered outage. Shut down immediately after advised that the outage is no longer imminent or in effect.	Operations	Ongoing							
73	CEC			x	AQ-33	ATCM Compliance - 341 HP generators	Operate and maintain equipment in accordance with ATCM for Stationary Compression Ignition Engines.	Operations	Ongoing							
74	CEC		x		AQ-34	NSPS Compliance -341 HP generators	Submit the engine specifications regarding NSPS and ARB ATCM emission limit requirements.	Fluor	> 30d pt purchase		30-Jun-11				purchase schedule assumed June, (TP)	
75	CEC			x	AQ-34	NSPS Compliance -341 HP generators	Operate and maintain equipment in compliance with requirements of the NSPS for Stationary Compression Ignition Internal Combustion Engines.	Operations	Ongoing							
76	CEC		x	x	AQ-35	Equipment Specification Compliance - 315 HP fire pump engines	Install, operate and maintain equipment in accordance with manufacture recommendations and with all data and specifications submitted with permit application.	Fluor / Operations	Ongoing							
77	CEC			x	AQ-36	Fuel Restrictions - 315 HP fire pump engines	Use only ultra-low sulfur diesel fuel for equipment.	Operations	Ongoing							

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78	CEC		x		AQ-37	Elapsed Operating Time Meter - 315 HP fire pump engines	Install a non-resettable hour meter on this unit to indicate elapsed engine operating time. Provide the District and the CPM the specification of the hour timer.	Fluor	> 30d pt installation							
79	CEC			x	AQ-38	Operating time restirctions - 315 HP fire pump engines	Limit use for emergency power. Operate < 50hrs/yr for testing.	Operations	Ongoing							
80	CEC			x	AQ-39	Operations and Maintenance log - 315 HP fire pump engines	Maintain an operations log for this unit current and on-site, for three years.	Operations	3 yrs after start of operations		1-May-13					
81	CEC			x	AQ-39	Operations and Maintenance log - 315 HP fire pump engines	Submit compliance documentation in Annual Report.	Operations	Annually							
82	CEC			x	AQ-40	ATCM Compliance - 315 HP fire pump engines	Operate and maintain equipment in accordance with ATCM for Stationary Compression Ignition Engines.	Operations	Ongoing							
83	CEC			x	AQ-41	NSPS Compliance - 315 HP fire pump engines	Operate and maintain equipment in compliance with requirements of the NSPS for Stationary Compression Ignition Internal Combustion Engines.	Operations	Ongoing							
84	CEC		x		AQ-41	NSPS Compliance - 315 HP fire pump engines	Submit the engine specifications demonstrating compliance with NSPS and ARB ATCM emission limit requirements.	Fluor	> 30d pt purchase		30-Jun-11				purchase schedule assumed June, (TP)	
85	CEC		x	x	AQ-42	Gas tank and pump - toll free number	Post the required toll-free number on the equipment.	Fluor / Operations	Ongoing							
86	CEC			x	AQ-43	Gas tank and pump - inspection and maintenance records	Maintain an inspection, repair and maintenance log onsite for at least two years.	Operations	2 yrs after start of operations		1-May-13					
88	CEC		x	x	AQ-44	Gas tank and pump - piping or vapor recovery modifications	Submit any modification to the piping or control fitting of the vapor recovery system for review and approval.	Fluor / Operations	Ongoing							
89	CEC		x	x	AQ-45	Gas tank and pump - Vapor vent piping	Equipt the vapor vent pipes with Husky 5885 pressure relief valves or as otherwise allowed by EO.	Fluor	Ongoing							
90	CEC			x	AQ-46	Gas tank and pump - initial and annual testing	Perform pressure, leak and liquid removal tests annually. Document test data on a Form similar to EO VR-401-A Form 1	Operations	< 60d after construction completion		29-Aug-14					
91	CEC			x	AQ-46	Gas tank and pump - initial and annual testing	Submit results of pressure checks.	Operations	< 30d after test							
92	CEC			x	AQ-46	Gas tank and pump - initial and annual testing	Perform pressure, leak and liquid removal tests within 60 days of construction completion. Document test data on a Form similar to EO VR-401-A Form 1	Fluor	Annually							
93	CEC			x	AQ-46	Gas tank and pump - initial and annual testing	Make test results available to CPM upon request.	Operations	Ongoing							
94	CEC		x		AQ-46	Gas tank and pump - initial and annual testing	Notify District pt testing. (initial and annual)	Fluor	> 10d prior to test							
95	CEC			x	AQ-46	Gas tank and pump - initial and annual testing	Submit passing test reports to District.	Operations	< 6w pt expiration of permit							
96	CEC		x	x	AQ-47	Gas tank and pump - aboveground tank and vapor recovery system compliance	Install and maintain aboveground storage tank and vapor recovery system in compliance with California Health and Safety Code.	Fluor / Operations	Ongoing							
97	CEC			x	AQ-48	Gas tank and pumps - certified technician	Maintenance and repair of system components shall be performed by OPW Certified Technicians.	Operations	Ongoing							
98	CEC			x	AQ-49	Gas tank and pumps - maintenance intervals	Maintenance Intervals shall be conducted by an OPW trained technician annually.	Operations	Annually							
100	CEC			x	AQ-51	Gas tank and pumps - EVR phase I and II	Maintain, and operate EVR Phase I in compliance with CARB Executive Order VR-401-A, and Phase II vapor recovery in accordance with G-70-116-F.	Operations	Ongoing							
101	CEC	x			BIO-1	Designated Biologist - staff assignment	Assign Designated Biologist	AECom/Thomas	> 30d pt gd		17-Dec-10	9/27/2010 2/18/11	Approved 11/30/10			
102	CEC		x		BIO-2	Designated Biologist - responsibilities	Include documentation of biological resource compliance in the Monthly Compliance Reports.	AECom/Thomas	Monthly		Monthly					
103	CEC			x	BIO-2	Designated Biologist - responsibilities	Des Bio to submit bio compliance documentation through operations, unless approved by the CPM.	AECom/Thomas	Annually							
104	CEC	x	x		BIO-2	Designated Biologist - responsibilities	Des Bio Pre-con: Consult on the preparation of the BRMIMP; Oversee survey efforts for sensitive bio resources; Mark sensitive biological resource areas and inspect regularly;	AECom/Thomas			n/a	n/a	n/a			
105	CEC			x	BIO-2	Designated Biologist - responsibilities	Submit BRMIMP compliance summary reports in Annual Compliance Report.	AECom/Thomas	Ongoing							
105	CEC		x		BIO-2	Designated Biologist - responsibilities	Des Bio Const: Advise Construction and Operation Managers on bio resources and COCs; Train Bio Monitors on BRMIMP, WEAP and USFWS guidelines	AECom/Thomas	Ongoing							
106	CEC	x			BIO-3	Biological Monitors - Staff assignment	Assign Bio Monitors and submit training verification	AECom/Thomas	> 30d pt gd		17-Dec-10	10-Dec-10	Approved (various dates)			
107	CEC		x		BIO-3	Biological Monitors - Staff assignment	Submit information on additional bio monitors, if needed	AECom/Thomas	> 10d pt monitoring activity							
108	CEC			x	BIO-4	Biological Monitors - responsibilities	Employ a Bio Mon during operations if any action could affect a sensitive bio resource.	AECom/Thomas	Ongoing							
109	CEC		x		BIO-4	Biological Monitors - responsibilities	Assist with surveys and in monitoring of site mobilization activities.	AECom/Thomas	pt construction		Ongoing					
110	CEC		x		BIO-4	Biological Monitors - responsibilities	Include BIO-4 compliance documentation in Monthly Compliance Report.	AECom/Thomas	Monthly		Monthly					
111	CEC		x		BIO-4	Biological Monitors - responsibilities	Bio Mons assist DB with surveys and monitoring disturbance activities.	AECom/Thomas	Ongoing							
112	CEC		x	x	BIO-5	Designated Biologist and Biological Monitor Authority	Des Bio to notify agencies if there a stop work order.	AECom/Thomas	Ongoing							
113	CEC	x			BIO-6	Worker Environmental Awareness Program (WEAP)	Prepare and Submit WEAP (including trainer resume)	AECom/Thomas	> 30d pt gd		17-Dec-10	3-Dec-10	Comments received 12/08/10			
114	CEC			x	BIO-6	Worker Environmental Awareness Program (WEAP)	Conduct training annually for perm. Employees and within one week of arrival for new staff.	Operations	Annually							
115	CEC		x		BIO-6	Worker Environmental Awareness Program (WEAP)	Submit training records in the Monthly Compliance Report.	Flour	Monthly							
116	CEC		x	x	BIO-6	Worker Environmental Awareness Program (WEAP)	Conduct WEAP training to all onsite personnel within one week of arrival. Employees must sign a completion form and display a hardhat sticker. Keep all training forms on site.	Fluor	Ongoing							
117	CEC	x			BIO-6	Worker Environmental Awareness Program (WEAP)	Submit Final WEAP.	Tetra Tech	> 10d pt gd		6-Jan-11	1/4/2011 1/14/11	Approved 1/14/11			

#	Agency	Pre-con	Const	ops	COC	Title	Description	Responsibility	COC Verification	Internal Due Date	Date Final Due	Date Submitted to Agency	Agency Status	Documentation On Hand Y/N	Internal Comments	Operational On-going Cost
118	CEC			x	BIO-6	Worker Environmental Awareness Program (WEAP)	Keep signed training forms on site for >6m after start of operations and 6m after staff dismissal.	Operations	> 6m Operations		1-May-13					
119	CEC	x	x		BIO-7	Biological Resources Mitigation Implementation and Monitoring Plan	Submit the revised or supplemented BRMIMP.	Tetra Tech	< 10d of receipt of addl permits							
120	CEC	x			BIO-7	Biological Resources Mitigation Implementation and Monitoring Plan	Submit Draft BRMIMP	Tetra Tech	> 30d pt site mobilization		17-Dec-10	23-Nov-10	comments received 12/21/10			
121	CEC	x		x	BIO-7	Biological Resources Mitigation Implementation and Monitoring Plan	Conduct Aerial Surveys and submit pre-const. photos for review	Tetra Tech	after construction completion		2-Jan-11	10-Jan-11	pending			
122	CEC			x	BIO-7	Biological Resources Mitigation Implementation and Monitoring Plan	Construction disturbance verification - submit post-construction aerial images of the project site .	Fluor	< 90d after construction completion		28-Sep-14					
123	CEC	x	x		BIO-7	Biological Resources Mitigation Implementation and Monitoring Plan	Submit any outstanding permits within 5 days of receipt and revise BRMIMP accordingly.	Tetra Tech	< 5d of receipt							
124	CEC	x	x		BIO-7	Biological Resources Mitigation Implementation and Monitoring Plan	Include BIO-7 compliance documentation in Monthly Compliance Report.	Tetra Tech	Monthly							
126	CEC	x			BIO-7	Biological Resources Mitigation Implementation and Monitoring Plan	Submit final BRMIMP.	Tetra Tech	> 7d pt gd		9-Jan-11	1/5/2011 1/11/11	Approved 1/12/11			
127	CEC		x	x	BIO-7	Biological Resources Mitigation Implementation and Monitoring Plan	Submit to the CPM a Construction Termination Report.	Tetra Tech	< 30d after construction completion		30-Jul-14					
128		x	x		BIO-8	Impact Avoidance and Minimization Measures	If an active bird nest is detected, submit Nesting Bird Monitoring and Management Plan	Tetra Tech	< 7d pt noisy construction in nesting habitat		10-Jan-11	1/25/2011 2/25/11	3/14/2011			
128	CEC		x		BIO-8	Impact Avoidance and Minimization Measures	Speed limit = 25 mph on all dirt roads and 45 mph on all paved roads.	Fluor	Ongoing							
128	CEC		x		BIO-8	Impact Avoidance and Minimization Measures	Signs - Post speed limit signs at entrances and wildlife signs at potential crossing areas.	Fluor	Ongoing						TOMMY will talk to peggy about where wildlife signs need to go.	
128	CEC		x		BIO-8	Impact Avoidance and Minimization Measures	Water - prevent puddles from forming. Bio Monitor must patrol areas watered outside fence to ensure no puddles form.	Fluor	Ongoing							
128	CEC		x		BIO-8	Impact Avoidance and Minimization Measures	Use non-toxic soil bonding and weighting agents on unpaved surfaces.	Fluor	Ongoing							
128	CEC		x		BIO-8	Impact Avoidance and Minimization Measures	Flag Project boundary in consultation with Des Bio and confine all disturbance and vehicles to within boundary. - PHASE II	Fluor	pt construction		25-Apr-11	completed	completed			
128	CEC	x			BIO-8	Impact Avoidance and Minimization Measures	Flag Project boundary in consultation with Des Bio and confine all disturbance and vehicles to within boundary. - PHASE I	Fluor	pt construction		10-Jan-11	completed	completed			
129	CEC				BIO-8	Impact Avoidance and Minimization Measures	Include BIO-8 compliance documentation in Annual Compliance Report.	Tetra Tech	Annually							
130	CEC		x		BIO-8	Impact Avoidance and Minimization Measures	Include BIO-8 compliance documentation in Monthly Compliance Report.	Tetra Tech	monthly		Monthly					
131	CEC	x	x		BIO-8	Impact Avoidance and Minimization Measures	Design facility lighting to prevent side casting of light towards wildlife habitat.	Fluor								
131	CEC		x		BIO-8	Impact Avoidance and Minimization Measures	Immediately clean up and properly dispose of all hazardous material spills and any contaminated soil.	Fluor	Ongoing							
132	CEC		x		BIO-8	Impact Avoidance and Minimization Measures	Des. Bio or Bio Monitor must walk immediately ahead of equipment during brushing and grading activities in unfenced habitat.	Tetra Tech / Fluor	Ongoing							
132	CEC		x		BIO-8	Impact Avoidance and Minimization Measures	Stockpile spoil and topsoil in disturbed areas lacking native vegetation and are not habitat for special-status species.	Tetra Tech / Fluor	Ongoing							
132	CEC		x		BIO-8	Impact Avoidance and Minimization Measures	Des. Bio must be onsite during disturbance-activities in un-fenced areas.	Tetra Tech / Fluor	Ongoing							
132	CEC		x		BIO-8	Impact Avoidance and Minimization Measures	Install and maintain facility lighting downward. Use minimum lighting needed, including motion or infrared sensors.	Tetra Tech / Fluor	Ongoing							
132	CEC		x		BIO-8	Impact Avoidance and Minimization Measures	Avoid loud construction activities (>65dBA) from February 15 to April 15 in nesting habitat. (See full text for exceptions).	Tetra Tech / Fluor	Ongoing							
132	CEC		x		BIO-8	Impact Avoidance and Minimization Measures	Backfill or slope all open trenches outside fenced area at end of day. Inspect open trenches at beginning, throughout and end of day.	Tetra Tech / Fluor	Ongoing							
132	CEC		x		BIO-8	Impact Avoidance and Minimization Measures	Cap or elevate (>8" above ground) all pipes greater than 3" diameter and outside fenced area. OR inspect before moving.	Tetra Tech / Fluor	Ongoing							
132	CEC		x		BIO-8	Impact Avoidance and Minimization Measures	Remove road-killed animals on Project roads. Contact agencies immediately if animal is a special-status species.	Tetra Tech / Fluor	Ongoing							
132	CEC		x		BIO-8	Impact Avoidance and Minimization Measures	Service vehicles and equipment in designated areas only. Service/maintenance vehicles must carry a bucket and pads to absorb leaks or spills.	Tetra Tech / Fluor	Ongoing							
132	CEC		x		BIO-8	Impact Avoidance and Minimization Measures	Keep all food and trash in self-closing containers and remove from site daily.	Tetra Tech / Fluor	Ongoing							
132	CEC		x		BIO-8	Impact Avoidance and Minimization Measures	Workers must not feed wildlife or bring pets to the Project site.	Tetra Tech / Fluor	Ongoing							
132	CEC		x		BIO-8	Impact Avoidance and Minimization Measures	No firearms or weapons onsite.	Tetra Tech / Fluor	Ongoing							
132	CEC		x		BIO-8	Impact Avoidance and Minimization Measures	Stabilize all disturbed soils and roads (const and oper).	Tetra Tech / Fluor	Ongoing							
132	CEC		x		BIO-8	Impact Avoidance and Minimization Measures	Install and maintain erosion control measures to prevent sedimentation of "Waters of the State". Sediment and other flow-restricting materials shall be moved to a location where they shall not be washed back into the stream.	Tetra Tech / Fluor	Ongoing							
134	CEC		x		BIO-8	Impact Avoidance and Minimization Measures	If activities btwn Feb15 to Apr15 may result in noise >65 dBA in bird nesting habitat, submit nest survey results (as described in 9a).	Tetra Tech	< 7d before noisy construction							
135	CEC	x	x		BIO-8	Impact Avoidance and Minimization Measures	Locate parking areas, staging and disposal site locations in areas without native vegetation or special-status species habitat.	Tetra Tech / Fluor								
135	CEC		x		BIO-8	Impact Avoidance and Minimization Measures	Park and store vehicles within exclusion fence. If not possible, check under vehicle for tortoise before moving.	Tetra Tech / Fluor								
135	CEC	x			BIO-8	Impact Avoidance and Minimization Measures	Designated Biologist must monitor ground disturbing activities prior to pre-construction site mobilization.	Tetra Tech / Fluor	pt site mobilization		16-Jan-11	completed				

#	Agency	Pre-con	Const	ops	COC	Title	Description	Responsibility	COC Verification	Internal Due Date	Date Final Due	Date Submitted to Agency	Agency Status	Documentation On Hand Y/N	Internal Comments	Operational On-going Cost
136	CEC		x		BIO-9	Desert Tortoise Clearance Surveys and Fencing	Flag and survey the alignments for the permanent perimeter fence and utility rights-of-way fencing <24hrs PT fence construction.	Fluor	< 24hrs pt fence construction							
137	CEC		x		BIO-9	Desert Tortoise Clearance Surveys and Fencing	Submit DT survey reports. Ph I	Tetra Tech	< 30d after survey complete		17-Feb-11	2/25/2011 3/28/11	Comments received 3/14/11			
137	CEC		x		BIO-9	Desert Tortoise Clearance Surveys and Fencing	Submit DT survey reports. P II	Tetra Tech	< 30d after survey complete		15-May-11					
138	CEC		x		BIO-9	Desert Tortoise Clearance Surveys and Fencing	Inspect temporary fencing weekly and, where drainages intersect the fencing, during and within 24 hours following major rainfall events. Repair fence immediately. If damage could have allowed tortoise entry, Des Bio must inspect area for animal presence.	Tetra Tech	< 24hr following rain event							
139	CEC		x		BIO-9	Desert Tortoise Clearance Surveys and Fencing	Inspect permanent fencing monthly, during and within 24 hours following all major rainfall events (flow is detectable within the fenced drainage). Repair fence immediately, with permanent repairs completed within 48 hrs.	Tetra Tech	< 48hrs following rain event							
140	CEC		x		BIO-9	Desert Tortoise Clearance Surveys and Fencing	If tortoises were relocated during fence installation, inspect fences at least two times a day for the first 7 days.	Tetra Tech	Monthly		Monthly					
141	CEC	x			BIO-9	Desert Tortoise Clearance Surveys and Fencing	Design security gates with minimal ground clearance to deter ingress by tortoises.	Fluor								
141	CEC		x		BIO-9	Desert Tortoise Clearance Surveys and Fencing	Clear plant site of Tortoise following construction of permanent fence. Search and collapse all unoccupied burrows. Excavate all occupied burrows. Relocate and monitor in accordance with Translocation Plan.	Tetra Tech	following const of permanent fence		15-Apr-11					
141	CEC	x			BIO-9	Desert Tortoise Clearance Surveys and Fencing	Install exclusion (supervised by Des. Bio or Monitors) fencing PT site clearing and grubbing.	Fluor	pt clearing and grading		18-Jan-11	completed	completed			
142	CEC	x	x		BIO-10	Desert Tortoise Translocation Plan	Submit a Translocation Plan status report following translocation of a DT.	Tetra Tech	< 30d after initiation of relocation							
143	CEC	x			BIO-10	Desert Tortoise Translocation Plan	Submit final version of Desert Tortoise Translocation Plan.	Tetra Tech	< 30d pt site mobilization		17-Dec-10	11/29/10, resubmitted 12/28/10 resub 1/7/11 1/10/11 2/8/11	Approved 1/10/11			
144	CEC		x		BIO-11	Desert Tortoise Compliance Verification	Des Bio must be onsite daily during ground-disturbing construction activities located beyond permanent fencing.	Tetra Tech	Ongoing							
145	CEC		x	x	BIO-11	Desert Tortoise Compliance Verification	Provide agencies with reasonable access to the Project site and compensation lands.	NextEra	Ongoing							
146	CEC			x	BIO-11	Desert Tortoise Compliance Verification	Submit a Final Listed Species Mitigation Report.	Tetra Tech	< 45d after initial start up		14-Jun-13					
147	CEC		x		BIO-11	Desert Tortoise Compliance Verification	Des. Bio to conduct compliance inspections at least once per month after grading is completed.	Tetra Tech	Monthly		Monthly					
149	CEC	x	x		BIO-11	Desert Tortoise Compliance Verification	DesBio - Notify agencies immediately of any injured or dead listed species. Follow up with written notification within 2 days.	Tetra Tech	< 2d of discovery							
150	CEC	x			BIO-11	Desert Tortoise Compliance Verification	Des Bio - Notify the CPM > 14d pt construction ground disturbance. Ph I	Tetra Tech	> 14d pt gd		2-Jan-11	3-Jan-11	NA			
150	CEC	x			BIO-11	Desert Tortoise Compliance Verification	Des Bio - Notify the CPM > 14d pt construction ground disturbance. Ph II	Tetra Tech	> 14d pt gd		17-Apr-11					
150	CEC		x		BIO-11	Desert Tortoise Compliance Verification	Notify the CPM immediately of any NCR.	Tetra Tech	upon discovery							
151	CEC		x		BIO-12	Desert Tortoise Compensatory Mitigation	Submit PAR analysis for compensation lands.	Tetra Tech	< 60d after CPM approval							
152	CEC		x		BIO-12	Desert Tortoise Compensatory Mitigation	Submit an Acquisition Proposal compensation lands.	Tetra Tech	< 12m after start of construction		12-Jan-12					
153	CEC		x		BIO-12	Desert Tortoise Compensatory Mitigation	Fund activities for Des Tort compensation. Submit verification of funding to CPM.	NextEra	< 60d CPM determining requirements							
153	CEC		x		BIO-12	Desert Tortoise Compensatory Mitigation	Complete initial protection and improvement activities of mitigation lands. Submit verification to CPM.	Tetra Tech	< 6m CPM determining requirements							
154	CEC		x		BIO-12	Desert Tortoise Compensatory Mitigation	If delegated to third party, complete acquisition within 18 months of gd activities.	NextEra	< 18m after start of gd		9-Jul-12					
155	CEC			x	BIO-12	Desert Tortoise Compensatory Mitigation	Provide to agencies a total disturbance acreage, including B/A aerial photography.	Fluor	< 90d after completion of gd		28-Sep-14					
156	CEC		x		BIO-12	Desert Tortoise Compensatory Mitigation	If mitigation is not completed 30d pt gd, post security for funding.	NextEra	> 30d pt gd		1-Apr-11				look at tricia's table of approvals	
157	CEC	x			BIO-12	Desert Tortoise Compensatory Mitigation	Notify (written) CPM of gd activity commencement.	Tetra Tech	> 30d pt gd		17-Dec-10	3-Jan-10	NA			
157	CEC	x			BIO-12	Desert Tortoise Compensatory Mitigation	Notify (written) CPM of gd activity commencement. Phase II	Tetra Tech	> 30d pt gd		2-Apr-11					
158	CEC		x		BIO-12	Desert Tortoise Compensatory Mitigation	Submit a Preliminary Title Report, initial hazardous materials survey report, biological analysis for compensation land.	Tetra Tech								
159	CEC	x	x		BIO-12	Desert Tortoise Compensatory Mitigation	Fund long-term maintenance and management activities of the compensation lands. Submit verification of funding.	NextEra	< 30d after CPM approval							
160	CEC		x		BIO-12	Desert Tortoise Compensatory Mitigation	Acquire and transfer fee title to the compensation lands, a conservation easement over the lands, or both.	Fluor			1-Nov-11	Complete	Complete			
161	CEC		x		BIO-12	Desert Tortoise Compensatory Mitigation	Alternative to compensation lands, contribute funds to the Renewable Energy Action Team (REAT).	Fluor			1-Nov-11	Complete	Complete			
162	CEC		x		BIO-12	Desert Tortoise Compensatory Mitigation	Submit a Management Plan for Compensation Lands.	Fluor	< 180d after acquisition		1-Nov-11	Complete	Complete			
163	CEC			x	BIO-13	Raven Management Plan	Submit a status report of the Raven Management Plan implementation.	Fluor	< 30d after start of operation		30-May-13	Complete	Complete	Raven Management Plan submitted		
164	CEC	x			BIO-13	Raven Management Plan	Submit final Raven Management Plan.	Tetra Tech	> 30d pt construction		17-Dec-10	12/3/2010 1/4/11 1/8/11 1/10/11 2/8/11 2/15/11	Approved 3/2/11			

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165	CEC	x			BIO-13	Raven Management Plan	Post payment to the REAT Account for Regional Raven Management Program. Submit documentation of payment..	NextEra	< 10d pt Project-related gd		7-Jan-11	23-Dec-10	NA			
167	CEC			x	BIO-13	Raven Management Plan	Include the status of the Raven Management Plan implementation in Jan 31 report during operations.	Fluor	Jan-31 Annually							
168	CEC		x	x	BIO-13	Raven Management Plan	Implement the approved Raven Management Plan.	Fluor	Ongoing							
169	CEC	x			BIO-14	Weed Management Plan	Submit final Weed Management Plan.	Alice Karl	> 10d pt Project-related gd		6-Jan-11	8/25/2010 resubmitted 1/5/11 1/11/11	Approved 1/10/11			
170	CEC			x	BIO-14	Weed Management Plan	Submit a status report of Weed Management Plan implementation.	Alice Karl	< 30d after start of operation		30-May-13					
171	CEC		x	x	BIO-14	Weed Management Plan	Implement the Weed Management Plan.	Alice Karl	Ongoing							
172	CEC			x	BIO-14	Weed Management Plan	Submit a status report of Weed Management Plan implementation in Jan 31 report during operation.	Alice Karl	Jan-31 Annually							
173	CEC			x	BIO-15	Pre-construction Nest Surveys and Avoidance Measures	Submit summary report of nest buffer zones in Jan 31 report during operations.	Alice Karl	Jan-31 Annually							
174	CEC	x	x		BIO-15	Pre-construction Nest Surveys and Avoidance Measures	If active nests are found, establish buffer and Nesting Bird Monitoring Plan (see BIO-8); map locations and submit report. Des. Bio or Monitor must monitor nest until nestlings fledge.	Thomas Darden	until fledged		After Feb 1	24-Feb-11	Complete			
174	CEC	x	x		BIO-15	Pre-construction Nest Surveys and Avoidance Measures	If active nests are found, establish buffer and Nesting Bird Monitoring Plan (see BIO-8); map locations and submit report. Des. Bio or Monitor must monitor nest until nestlings fledge. PLANT SITE, PHASE II	Thomas Darden	until fledged		After Feb 1	24-Feb-11	Complete			
175	CEC	x	x		BIO-15	Pre-construction Nest Surveys and Avoidance Measures	Conduct two pre-construction nest surveys. If construction is inactive for > 3 weeks, additional surveys may be required.	Thomas Darden	< 7d pt construction		1-Feb-11	24-Feb-11	Complete			
176	CEC	x	x		BIO-15	Pre-construction Nest Surveys and Avoidance Measures	Submit letter report of nest survey results.	Thomas Darden	pt gd		22-Apr-11	24-Feb-11	Complete			
177	CEC		x		BIO-15	Pre-construction Nest Surveys and Avoidance Measures	Avoid construction in buffer zones established for active bird nests as determined and flagged by Des Bio.	Thomas Darden	until fledged		22-Apr-11	24-Feb-11	Complete			
179	CEC	x			BIO-16	Avian Protection Plan.	Submit a final Avian Protection Plan.	Tetra Tech	> 30d pt construction-related gd		17-Dec-10	12/6/2010 1/4/11	Approved 1/12/11			
180	CEC		x	x	BIO-16	Avian Protection Plan.	Implement an Avian Protection Plan	Tetra Tech / Operations	Ongoing			Submitted Jan 2011.	Submitted Jan 2011.			
181	CEC		x	x	BIO-16	Avian Protection Plan.	Report project-related bird deaths or injuries to agencies.	Tetra Tech	Ongoing							
182	CEC			x	BIO-16	Avian Protection Plan.	Continue quarterly and annual reporting on APP until agencies determine not necessary.	Nextera Energy	Ongoing, Quarterly and annually							
183	CEC			x	BIO-16	Avian Protection Plan.	Submit report of study design and results after two years of data collection.	Nextera Energy	< 3yr after start of operation		14-Apr-16					
184	CEC			x	BIO-16	Avian Protection Plan.	Submit quarterly monitoring reports of APP status. Follow up with an annual report (Jan 31).	Nextera Energy	Jan-31 Annually							
185	CEC		x		BIO-17	American Badger and Desert Kit Fox Impact Avoidance & Minimization Measures	Submit a report of badger and kit fox survey results. Ph I	Nextera Energy	< 30d after survey complete		17-Feb-11	2/25/2011 3/28/11	comments received 3/14/11			
185	CEC		x		BIO-17	American Badger and Desert Kit Fox Impact Avoidance & Minimization Measures	Submit a report of badger and kit fox survey results. Ph II	Nextera Energy	< 30d after survey complete		15-May-11					
186	CEC		x		BIO-17	American Badger and Desert Kit Fox Impact Avoidance & Minimization Measures	Perform pre-construction surveys for badger and kit fox dens. Ph II	Thomas Darden	pt construction		15-Mar-11	Ongoing				
187	CEC	x			BIO-18	Burrowing Owl Impact Avoidance, Minimization and Compensation Measures	If an active owl burrow is detected: Notify agencies that a relocation of owls is necessary.	Thomas Darden	> 10d after survey complete		15-Apr-11					
188	CEC			x	BIO-18	Burrowing Owl Impact Avoidance, Minimization and Compensation Measures	Submit results of monitoring and management of compensation lands.	Tetra Tech	Jan-31 Annually for first 5yrs of operations							
190	CEC		x		BIO-18	Burrowing Owl Impact Avoidance, Minimization and Compensation Measures	If an active owl burrow is detected: Provide a land management plan.	Thomas Darden	< 90d after acquisition							
191	CEC		x		BIO-18	Burrowing Owl Impact Avoidance, Minimization and Compensation Measures	Submit verification to agencies that compensation land or easements have been acquired.	Thomas Darden	< 18m after start of construction		9-Jul-12					
192	CEC	x	x		BIO-18	Burrowing Owl Impact Avoidance, Minimization and Compensation Measures	Submit burrowing owl compliance documentation in monthly compliance report.	Thomas Darden	Monthly							
193	CEC		x		BIO-18	Burrowing Owl Impact Avoidance, Minimization and Compensation Measures	If an active owl burrow is detected: Submit acquisition proposal and a PAR analysis.	Thomas Darden	> 90d pt acquisition							
194	CEC	x			BIO-18	Burrowing Owl Impact Avoidance, Minimization and Compensation Measures	Conduct pre-construction surveys for burrowing owls. Ph I	Thomas Darden	< 30d pt construction		16-Jan-11	Completed	Approved report 3/14/11			
194	CEC	x			BIO-18	Burrowing Owl Impact Avoidance, Minimization and Compensation Measures	Conduct pre-construction surveys for burrowing owls. Ph II	Thomas Darden	< 30d pt construction		1-Apr-11					
195	CEC	x	x		BIO-18	Burrowing Owl Impact Avoidance, Minimization and Compensation Measures	If an active owl burrow is detected: Establish Non-Disturbance Buffer Fencing (250 radius). Provide documentation that fence has been installed. Phase I	Thomas Darden	> 10d pt construction-related gd		6-Jan-11	NA				
195	CEC	x	x		BIO-18	Burrowing Owl Impact Avoidance, Minimization and Compensation Measures	If an active owl burrow is detected: Establish Non-Disturbance Buffer Fencing (250 radius). Provide documentation that fence has been installed. Phase II	Thomas Darden	> 10d pt construction-related gd		22-Apr-11					
196	CEC	x	x		BIO-18	Burrowing Owl Impact Avoidance, Minimization and Compensation Measures	If an active owl burrow is detected: Provide land/mitigation compensation security verification.	Thomas Darden	> 30d pt construction-related gd		17-Dec-10	23-Dec-10	NA			
197	CEC			x	BIO-18	Burrowing Owl Impact Avoidance, Minimization and Compensation Measures	Submit a Construction Termination Report identifying status of owl mitigation.	Thomas Darden	< 30d Start of Operations		30-May-13					

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198	CEC	x			BIO-18	Burrowing Owl Impact Avoidance, Minimization and Compensation Measures	If an active owl burrow is detected: Submit Burrowing Owl Relocation and Mitigation Plan.	Thomas Darden	< 30d after survey complete		17-Dec-10	11/26/2010 resubmitted 1/7/11	Approved 1/11/11			
199	CEC	x			BIO-19	Special-Status Plant Impact Avoidance, Minimization and Compensation	Rare Plant Surveys - Submit drawings and plans with ESAs and Section A Measures.	Thomas Darden	> 30d pt gd		17-Dec-10	3-Jan-11	Approved 1/12/11			
200	CEC		x		BIO-19	Special-Status Plant Impact Avoidance, Minimization and Compensation	If a Distribution Study is implemented as contingency mitigation, complete implementation within 2yrs of start of construction.	Tetra Tech	< 24m after start of construction		5-Jan-13					
200	CEC		x		BIO-19	Special-Status Plant Impact Avoidance, Minimization and Compensation	If a Distribution Study is implemented as contingency mitigation, initiate study within 6 months from the start of construction.	Tetra Tech	< 6m after start of construction		15-Jul-11					
201	CEC	x			BIO-19	Special-Status Plant Impact Avoidance, Minimization and Compensation	If compensatory mitigation is required, post Security for acquisition and enhancement funds.	NextEra	> 30d pt gd		17-Dec-10	NA	NA		No compensatory mitigation required.	
202	CEC	x			BIO-19	Special-Status Plant Impact Avoidance, Minimization and Compensation	Rare Plant Surveys - Submit data, field forms and summary of results.	Tetra Tech	< 2w after survey complete			22-Oct-10	Approved 11/2/2010			
204	CEC		x		BIO-19	Special-Status Plant Impact Avoidance, Minimization and Compensation	Habitat Enhancement: Submit Security adequate for long-term implementation and monitoring of the Habitat Enhancement / Restoration Plan.	Tetra Tech								
205	CEC	x			BIO-19	Special-Status Plant Impact Avoidance, Minimization and Compensation	Rare Plant Surveys - Submit the Final Summer-Fall Botanical Survey Report.	Tetra Tech	> 30d pt gd		17-Dec-10	N/A	NA		N/A - no rare plants were found during fall surveys. Letter to CEC sent on 10/22 satisfied this requirement.	
206	CEC		x		BIO-19	Special-Status Plant Impact Avoidance, Minimization and Compensation	Habitat Enhancement: If proposed, secure approval of a Habitat Enhancement/Restoration Plan.	Tetra Tech	< 6m after start of construction		15-Jul-11					
207	CEC	x			BIO-19	Special-Status Plant Impact Avoidance, Minimization and Compensation	Rare Plant Surveys - Submit draft Special-Status Plant Mitigation Plan.	Tetra Tech	> 30d pt gd		17-Dec-10	N/A	NA		Not required since no rare plants were found during fall surveys	
208	CEC	x	x	x	BIO-19	Special-Status Plant Impact Avoidance, Minimization and Compensation	Notify agencies immediately if a State- or Federal-Listed Species, or BLM Sensitive Species is identified at any time during the life of the Project.	Tetra Tech								
209	CEC		x		BIO-19	Special-Status Plant Impact Avoidance, Minimization and Compensation	Compensatory Mitigation: Deposit the required funds and submit verification of deposit.	NextEra	> 30d after acquisition							
210	CEC		x		BIO-19	Special-Status Plant Impact Avoidance, Minimization and Compensation	Status and Distribution: Post funds for selected mitigation.	NextEra	< 18m after start of gd		9-Jul-12					
211	CEC		x		BIO-19	Special-Status Plant Impact Avoidance, Minimization and Compensation	Compensatory Mitigation: Submit a formal acquisition proposal and draft Management Plan.	Tetra Tech	> 90d pt acquisition							
212	CEC		x		BIO-19	Special-Status Plant Impact Avoidance, Minimization and Compensation	Submit compliance documentation of special-status plant avoidance and minimization measures in the Monthly Compliance Reports.	Tetra Tech	Monthly		Monthly	n/a				
213	CEC		x		BIO-19	Special-Status Plant Impact Avoidance, Minimization and Compensation	Compensatory Mitigation: Complete acquisition and submit verification.	Tetra Tech	< 18 m after start of gd		9-Jul-12					
214	CEC		x		BIO-19	Special-Status Plant Impact Avoidance, Minimization and Compensation	Habitat Enhancement: initiate activities > 12m from the start of construction.	Tetra Tech	< 12m after start of construction		12-Jan-12					
215	CEC		x		BIO-19	Special-Status Plant Impact Avoidance, Minimization and Compensation	Compensatory Mitigation: Submit any agreements with an approved, delegated third party.	Tetra Tech	> 90d pt acquisition							
216	CEC		x		BIO-19	Special-Status Plant Impact Avoidance, Minimization and Compensation	Status and Distribution: If selected, initiate study <6m after gd.	Tetra Tech	< 180d after gd		15-Jul-11					
216	CEC		x		BIO-19	Special-Status Plant Impact Avoidance, Minimization and Compensation	Status and Distribution: Iif selected, submit draft and final study study within 24m and 30m after gd, respectively.	Tetra Tech	< 24m after start of gd		5-Jan-13					
218	CEC		x	x	BIO-19-A	Section A: Special-Status Plant Impact Avoidance, Minimization and Compensation	Select, install and maintain ECDs such that special-status plants are not directly or indirectly affected (seed mixes, hay, runoff).	Fluor	Ongoing							
219	CEC	x			BIO-19-A	Section A: Special-Status Plant Impact Avoidance, Minimization and Compensation	Assign a Designated Botanist.	Tetra Tech	none		none	9/27/2010 2/8/11	Approved 10/15/10			
220	CEC	x			BIO-19-A	Section A: Special-Status Plant Impact Avoidance, Minimization and Compensation	Include Special-Status Plant discussion in the Worker Environmental Awareness Program (WEAP).	Tetra Tech			17-Dec-10	12/3/2010 resubmitted 1/4/11	Approved 1/14/11			
222	CEC	x			BIO-19-A	Section A: Special-Status Plant Impact Avoidance, Minimization and Compensation	Establish and mark boundaries for ESAs PT start of any ground- or vegetation-disturbing activities.	Tetra Tech	pt gd		16-Jan-11	completed	NA			
223	CEC		x	x (closure)	BIO-19-A	Section A: Special-Status Plant Impact Avoidance, Minimization and Compensation	Designated Botanist: monitor disturbance acitivites weekly.	Tetra Tech	Weekly		17-Jan-11	Submitted in monthly report				
224	CEC	x			BIO-19-A	Section A: Special-Status Plant Impact Avoidance, Minimization and Compensation	Incorporate site design modifications to minimize impacts to special-status plants along the Project linears.	Fluor								
225	CEC			x	BIO-19-A	Section A: Special-Status Plant Impact Avoidance, Minimization and Compensation	Des Bio: Protect special-status plant species within 100ft of Project Boundaries during operations.	Darden	Ongoing, this task is in the daily and weekly DB reports. Included in the monthly compliance reports.							
226	CEC		x	x	BIO-19-A	Section A: Special-Status Plant Impact Avoidance, Minimization and Compensation	Maintain a 100-ft buffer around ESAs. (vehicles, wash stations, storage, equipment, etc)	Darden	Ongoing							

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227	CEC		x		BIO-19-A	Section A: Special-Status Plant Impact Avoidance, Minimization and Compensation	Protect special-status plants within 100ft of site boundaries from drift of herbicides and stabilizer.	Darden, Karl, and operations	Ongoing, Re-vegetation efforts to begin middle of October.							
230	CEC	x			BIO-19-B	Section B: Special-Status Plant Impact Avoidance, Minimization and Compensation	If a special-status plant is found, record extent of population using GPS. Assess the extent of the species (qualitatively) within one mile of Project boundaries.	Karl, Darden	pt construction		16-Jan-11	NA	NA			
231	CEC	x			BIO-19-B	Section B: Special-Status Plant Impact Avoidance, Minimization and Compensation	Prior to the start of surveys, all crew members must visit reference sites (where available)	Tetra Tech	pt plant survey			completed				
232	CEC	x			BIO-19-C	Section C: Special-Status Plant Impact Avoidance, Minimization and Compensation	Collect seeds from affected Special-Status Plants and arrange for long-term storage prior to construction.	Tetra Tech	pt construction		16-Jan-11	NA	NA			
235	CEC	x			BIO-19-C	Section C: Special-Status Plant Impact Avoidance, Minimization and Compensation	Special-status plants: CNDDB Rank plants -If detected within the Project Disturbance Area, prepare and implement a Mitigation Plan.	Tetra Tech	n/a		n/a	NA	NA		Surveys completed. No rare plants found. COC not applicable.	
236	CEC	x			BIO-20	Sand Dunes / Mojave Fringe-Toed Lizard Mitigation	Post security for acquisitions and enhancement of MFTL habitat.	NextEra	> 30d pt construction-related gd		17-Dec-10	23-Dec-10	1/4/2011			
237	CEC		x		BIO-20	Sand Dunes / Mojave Fringe-Toed Lizard Mitigation	Submit a MFTL Compensation Land Management Plan and associated funding.	Tetra Tech	< 180d after acquisition							
238	CEC			x	BIO-20	Sand Dunes / Mojave Fringe-Toed Lizard Mitigation	Submit final accounting of MFTL habitat disturbed during construction within 90d of construction completion.	Tetra Tech	< 90d after start of operation		29-Jul-13					
239	CEC		x		BIO-20	Sand Dunes / Mojave Fringe-Toed Lizard Mitigation	Submit a formal acquisition proposal and PAR analysis.	Tetra Tech	> 90d pt acquisition							
240	CEC		x		BIO-20	Sand Dunes / Mojave Fringe-Toed Lizard Mitigation	Complete MFTL compensation land acquisition and submit verification.	Tetra Tech	< 18m after start of construction		9-Jul-12					
242	CEC		x		BIO-20	Sand Dunes / Mojave Fringe-Toed Lizard Mitigation	Provide funding for MFTL compensation lands OR deposit funds into NFWF's REAT Account.	NextEra								
243	CEC			x	BIO-21	Evaporation Pond Netting and Monitoring	Report any dead wildlife to Des Bio <24hrs. Des Bio must report to agencies ,48hrs.	Tetra Tech / Operations	< 1d of detection, all dead wildlife has been reported							
244	CEC			x	BIO-21	Evaporation Pond Netting and Monitoring	If no entanglements are detected after 12 months, continue to monitor quarterly.	Tetra Tech	quarterly		Quarterly					
245	CEC			x	BIO-21	Evaporation Pond Netting and Monitoring	Submit quarterly reports to agencies for first year of operation. Thereafter, submit reports annually.	Tetra Tech	quarterly		Quarterly					
246	CEC			x	BIO-21	Evaporation Pond Netting and Monitoring	If after 12 quarterly inspections there are no entanglements, continue biannually (spring, fall).	Tetra Tech	biannually							
247	CEC			x	BIO-21	Evaporation Pond Netting and Monitoring	Submit annual reports no later than January 31 of each year.	Tetra Tech	Jan-31 Annually							
248	CEC			x	BIO-21	Evaporation Pond Netting and Monitoring	Netting cannot touch the water in evap ponds.	Operations	Ongoing							
249	CEC			x	BIO-21	Evaporation Pond Netting and Monitoring	Consult with agency regarding removal of injured wildlife in evap ponds.	Tetra Tech	Ongoing							
250	CEC		x		BIO-21	Evaporation Pond Netting and Monitoring	Install a visual deterrent in addition to the mesh cover.	Fluor								
251	CEC			x	BIO-21	Evaporation Pond Netting and Monitoring	Submit as-built drawings and photos of evap ponds	Fluor	> 30d pt operation		31-Mar-13					
252	CEC			x	BIO-21	Evaporation Pond Netting and Monitoring	Des Bio or Monitor must inspect netting monthly during operation.	Tetra Tech	monthly		Monthly					
254	CEC		x		BIO-22	Mitigation for Impacts to State Waters	Submit a draft Management Plan for the drainages on the acquired compensation lands.	Tetra Tech / Fluor	< 180d after acquisition							
256	CEC		x	x	BIO-22	Mitigation for Impacts to State Waters	Provide a copy of Condition of Certification BIO-22 to all on-site personnel (detailing Stop Work Authorities).	Genesis ECM/Operations	Ongoing, part of the WEAP training							
257	CEC	x			BIO-22	Mitigation for Impacts to State Waters	Notify agencies prior to disturbance and completion of work in jurisdictional waters.	Tetra Tech / Fluor	> 5d pt construction-related gd in state waters		10-Jan-11	3-Jan-11	NA			
258	CEC			x	BIO-22	Mitigation for Impacts to State Waters	Include a discussion of work in waters of the state in Annual Compliance Reports.	Genesis EHS	Annually		Annual					
258	CEC		x		BIO-22	Mitigation for Impacts to State Waters	Include a discussion of work in waters of the state in Monthly Compliance Reports.	Genesis ECM	Monthly, a section on the monthly report addresses this issue.		Monthly					
259	CEC			x	BIO-22	Mitigation for Impacts to State Waters	Submit a final accounting of disturbance to jurisdictional waters during construction.	Genesis ECM	< 90d after start of operation		29-Jul-13					
260	CEC		x		BIO-22	Mitigation for Impacts to State Waters	Transfer fee title or submit a conservation easement for compensation lands.	Genesis ECM								
261	CEC	x			BIO-22	Mitigation for Impacts to State Waters	Provide verification of Security 30d pt CR gd.	NextEra	> 30d pt construction-related gd		17-Dec-10	23-Dec-10	1/4/2011			
262	CEC		x	x	BIO-22	Mitigation for Impacts to State Waters	Drainage BMPs: Minimize road building, construction activities and vegetation clearing within ephemeral drainages to the extent feasible. Do not allow water containing mud, silt, or other pollutants from grading, aggregate washing, or other activities to enter ephemeral	Genesis Project management/ECM	Ongoing							
263	CEC	x			BIO-22	Mitigation for Impacts to State Waters	Provide written verification (i.e., through incorporation into the BRMIMP) to the CPM that BMPs shall be implemented.	ECM	> 30d pt construction-related gd in state waters		11-Jan-11	23-Nov-10	NA			
264	CEC			x	BIO-22	Mitigation for Impacts to State Waters	Submit a report of monitoring and management of compensation lands.	Operations	Jan-31 Annually							
265	CEC		x		BIO-22	Mitigation for Impacts to State Waters	Submit verification of acquisition.	Fluor	< 18m after start of construction		9-Jul-12					
266	CEC			x	BIO-22	Mitigation for Impacts to State Waters	Include a copy of the notifying change of conditions report in the annual reports.	Operations	Annually							
268	CEC	x	x		BIO-22	Mitigation for Impacts to State Waters	Notify agencies of any change of conditions to the Project (site conditions, impacts, mitigation).	ECM	< 7d upon discovery							
269	CEC			x	BIO-22	Mitigation for Impacts to State Waters	Include a copy of the notifying change of conditions report in the annual reports.	Operations	Annually							
270	CEC	x			BIO-23	Decommissioning and Closure Plan	Post security for Decommissioning and Closure Plan.	NextEra	> 10d pt construction-related gd		6-Jan-11	4-Jan-11	Approved 1/11/11			
271	CEC			x	BIO-23	Decommissioning and Closure Plan	Revise and submit Decommissioning and Closure Plan every 5yrs during operations.	Operations	every 5yrs							
272	CEC			x	BIO-23	Decommissioning and Closure Plan	Implement a final Decommissioning and Closure Plan.	Operations	Project closure							

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273	CEC	x			BIO-23	Decommissioning and Closure Plan	Submit a draft Decommissioning and Closure Plan.	Worley Parsons	> 30d pt construction-related gd		17-Dec-10	25-Aug-10	Approved 10/15/2010			
274	CEC		x	x	BIO-24	Revegetation of Temporarily Disturbed Areas	Submit status report of Reveg Plan yearly.	Tetra Tech	Jan-31 Annually							
275	CEC		x	x	BIO-24	Revegetation of Temporarily Disturbed Areas	Implement Revegetation Plan.	Fluor	Ongoing							
276	CEC	x			BIO-24	Revegetation of Temporarily Disturbed Areas	Submit to the CPM a final agency-approved Revegetation Plan.	Tetra Tech	> 30d pt construction-related gd		17-Dec-10	8/25/2010 resubmitted 12/29/10	Approved 1/12/11			
277	CEC			x	BIO-24	Revegetation of Temporarily Disturbed Areas	Provide compliance documentation and status of completion of the Reveg Plan.	Tetra Tech	< 30d after construction completion		30-Jul-14					
278	CEC				BIO-25		DELETED									
279	CEC				BIO-26		DELETED									
280	CEC			x	BIO-27	Couch's Spadefoot Toad Impact Avoidance and Minimization Measures	Conduct Spadefoot Toad surveys. Submit findings	Alice Karl	Oct-10		30-Oct-10	25-Oct-10	NA			
280	CEC			x	BIO-27	Couch's Spadefoot Toad Impact Avoidance and Minimization Measures	If ponds are created, submit compliance documentation yearly.	Tetra Tech	Jan-31 Annually			n/a				
281	CEC		x		BIO-27	Couch's Spadefoot Toad Impact Avoidance and Minimization Measures	If ponds are created, provide as-built drawings and photos.	Tetra Tech	> 90d pt operation		30-Jan-13	n/a				
282	CEC	x			BIO-27	Couch's Spadefoot Toad Impact Avoidance and Minimization Measures	Submit a final CST Protection and Mitigation Plan.	Tetra Tech	> 30d pt construction-related gd		17-Dec-10	11/20/2010 resubmitted 1/5/11 1/10/11	Approved 1/11/11			
283	CEC		x	x	BIO-27	Couch's Spadefoot Toad Impact Avoidance and Minimization Measures	Implement a CST Protection and Mitigation Plan.	Tetra Tech	Ongoing							
284	CEC		x		BIO-28	Golden Eagle Inventory and Monitoring	If a nest is found, notify agencies submit final Golden Eagle Monitoring and Management Plan.	DB/Thomas	< 30d after detection							
285	CEC		x		BIO-28	Golden Eagle Inventory and Monitoring	Survey for golden eagle annually during construction.	DB/Thomas	Annually							
287	CEC		x		BIO-28	Golden Eagle Inventory and Monitoring	Submit results of eagle inventory.	Tetra Tech	< 30d of survey completion		30-Jun-11					
288	CEC	x			BIO-29	in-Lieu Mitigation Option	Notify CEC if an in-lieu fee is preferred for bio mitigation.	NextEra	pt construction-related gd		16-Jan-11	23-Dec-10	NA			
289	CEC	x			CUL-1	prehistoric Trails Network Cultural Landscape (PTNCL) Documentation and Poss. NRHP Nomination	Submit notice of fund transfer.	NextEra	< 10d of transfer			27-Sep-10	Approved 10/15/10			
290	CEC	x			CUL-1	PTNCL Documentation and Poss. NRHP Nomination	Contribute funds for the PTNCL Documentation and Possible NRHP Nomination program.	NextEra	upon receipt of invoice			27-Sep-10	Approved 10/15/10			
291	CEC	x			CUL-2	Desert Training Center CAL-AZ Maneuver Area Cultural Landscape Documentation and Poss. NRHP Nomination	Submit notice of fund transfer.	NextEra	< 10d of transfer			27-Sep-10	Approved 10/15/10			
292	CEC	x			CUL-2	Desert Training Center CAL-AZ Maneuver Area Cultural Landscape Documentation and Poss. NRHP Nomination	Contribute funds for the Documentation and Possible NRHP Nomination program (DTCCL)	NextEra	upon receipt of invoice			27-Sep-10	Approved 10/15/10			
293	CEC	x			CUL-3	Cultural Resources Personnel	Assign a cultural resource specialist (CRS).	AECom	pt site mobilization		16-Jan-11	26-Aug-10	Approved 10/18/10			
294	CEC	x	x		CUL-3	Cultural Resources Personnel	Submit resume of CRS replacement (if necessary).	AECom	10d pt CRS departure				N/A			
295	CEC	x			CUL-3	Cultural Resources Personnel	Obtain services of a specialist backhoe operator during excavation of CA-Riv-9072	AECom	NA		NA	NA	NA			
296	CEC	x	x		CUL-3	Cultural Resources Personnel	CRS to oversee all cultural resources mitigation, monitoring, curation, and reporting activities.	Jessica Auch	Ongoing							
297	CEC	x			CUL-3	Cultural Resources Personnel	Submit resumes for a CRS, alternate CRS (optional), prehistoric archaeologist, ethnographer, historical archaeologist, project geoarchaeologist.	AECom	> 75d pt gd		2-Nov-10	26-Aug-10	CRS, Approved 10/18/10 Alt CRS (addl info submitted 10/29) PPA, Approved 10/18/10 PHA, Approved 10/18/10 GE (addl info submitted 10/29)			
298	CEC	x	x		CUL-3	Cultural Resources Personnel	Submit letter with names and quals of *additional* CR Monitors.	AECom	5d pt arrival on site		as needed	30-Mar-11				
299	CEC	x	x		CUL-3	Cultural Resources Personnel	Submit confirmation of CR staff availability for CUL-8, 10, 11, 12 and 17.	AECom	10d pt data recovery		7-Jan-11	Completed with resume submittal	NA			
301	CEC	x			CUL-3	Cultural Resources Personnel	Submit letter with names and quals of CR Monitors.	AECom	15d pt data recovery		2-Jan-11	10-Dec-10	Approved 1/13/11			
301	CEC	x			CUL-3	Cultural Resources Personnel	Submit letter with names and quals of field crew members.	AECom	15d pt data recovery		2-Jan-11	NA	NA			
302	CEC		x		CUL-4	Project Documents for Cultural Resources Personnel	If phased construction schedule changes, submit notice of change.	Jessica Auch	< 5d of decision							
303	CEC	x	x		CUL-4	Project Documents for Cultural Resources Personnel	If construction is phased, submit maps and drawings. Provide phase schedule to CRS and CPM.	Jessica Auch	15d pt start of each phase		1-Jan-11	Completed with CIVIL-1				
303	CEC	x	x		CUL-4	Project Documents for Cultural Resources Personnel	If construction is phased, submit maps and drawings. Provide phase schedule to CRS and CPM. Phase II	Jessica Auch	15d pt start of each phase		16-Apr-11					
304	CEC	x			CUL-4	Project Documents for Cultural Resources Personnel	Submit CR data and maps to CR staff and CPM.	Jessica Auch	> 60d pt gd		17-Nov-10	1-Dec-10	Pending - addl info requested			
305	CEC	x	x		CUL-4	Project Documents for Cultural Resources Personnel	Submit any changes in footprint.	Jessica Auch	15d pt gd		1-Jan-11	1/4/2011 3/18/11	Approved 3/30/11			
306	CEC		x		CUL-4	Project Documents for Cultural Resources Personnel	Submit weekly schedule and location of activities to CRS and CPM during ground disturbance.	Jessica Auch	Weekly		17-Jan-11					
307	CEC	x			CUL-5	Cultural Resources Monitoring and Mitigation Plan	Submit information from curation facility.	Jessica Auch	> 30d pt gd		17-Dec-10	12-Nov-10	NA			
308	CEC	x			CUL-5	Cultural Resources Monitoring and Mitigation Plan	Submit letter agreement to fund curation fees.	Jessica Auch	> 20d pt gd		27-Dec-10	10-Dec-10	NA			
309	CEC	x			CUL-5	Cultural Resources Monitoring and Mitigation Plan	Submit the CRMMP.	Jessica Auch	> 30d pt gd		1-Mar-11	3/1/2011 4/4/11				

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310	CEC		x		CUL-6	Cultural Resources Report	Submit a draft CR Report (CRR) if requesting suspension of construction (if necessary). Retain a copy of the draft CRR onsite.	Jessica Auch	> 30d after request to suspend construction							
311	CEC		x		CUL-6	Cultural Resources Report	Submit documentation of CRR distribution to parties.	Jessica Auch	< 10d of CRR approval							
312	CEC			x	CUL-6	Cultural Resources Report	Submit the final CRR.	Jessica Auch	< 180d after completion of gd		28-Dec-14					
313	CEC	x			CUL-7	Worker Environmental Awareness Program	CRS to submit training program.	Jessica Auch	> 30d pt gd		17-Dec-10	12/10/2010 resubmitted on 1/4/11	comments received 2/28/11			
314	CEC	x			CUL-7	Worker Environmental Awareness Program	CRS to submit WEAP training acknowledgement form.	Jessica Auch	> 15d pt gd		1-Jan-11					
315	CEC		x		CUL-7	Worker Environmental Awareness Program	Submit all new WEAP acknowledgement forms and a running tally of trained employees in monthly compliance report.	Jessica Auch	Monthly		Monthly					
316	CEC		x		CUL-7	Worker Environmental Awareness Program	Conduct WEAP training for all new workers prior to and during gd (including landscaping)	Jessica Auch	Ongoing							
317	CEC		x		CUL-8	Construction Monitoring Program	Geoarchaeologist to observe and sample all trenching of Tline as part of PTCNL documentation and possible NRHP nomination program (CUL-1).	Jessica Auch	1-Aug-11							
318	CEC	x	x		CUL-8	Construction Monitoring Program	Submit statement daily during gd if "no cultural resources over 50 years of age were discovered".	Jessica Auch	daily		17-Jan-11	Ongoing				
320	CEC		x		CUL-8	Construction Monitoring Program	Submit a summary report of CR-related monitoring and any new DPR 523A forms as part of the monthly compliance report.	Jessica Auch	Monthly		Monthly	1-Apr-11				
321	CEC		x		CUL-8	Construction Monitoring Program	Submit justification for reduction or cessation of CRS daily reporting.	Jessica Auch	< 24hrs pt change of reporting			8-Mar-11	3/28/2011			
322	CEC		x		CUL-8	Construction Monitoring Program	CR Staff to monitor and maintain daily log on provided forms for all gd activity until the Qoaf alluvium is reached. (including roads)	Jessica Auch	daily							
323	CEC		x		CUL-8	Construction Monitoring Program	Notify CPM of NCRs w/in 24 hrs, recommend corrective action.	Jessica Auch	< 24hr of discovery							
323	CEC		x		CUL-8	Construction Monitoring Program	Include report of any NCRs in monthly compliance report.	Jessica Auch	Monthly							
324	CEC	x	x		CUL-8	Construction Monitoring Program	Submit a copy of any Native American employment request and a copy of a response letter.	Jessica Auch	< 15d of receipt		10-Feb-11	8-Feb-11	Approved 3/2/2011			
326	CEC	x			CUL-8	Construction Monitoring Program	CPM to provide CRS with daily monitoring form.	Jessica Auch	> 30d pt gd		17-Dec-10	26-Nov-10	NA			
327	CEC	x	x		CUL-8	Construction Monitoring Program	Submit documentation of transmittals to Native American representatives following discovery of cultural material.	Jessica Auch	< 30d upon discovery							
328	CEC	x	x		CUL-8	Construction Monitoring Program	Submit "discovery" responses from tribes.	Jessica Auch	< 15d of receipt							
329	CEC	x			CUL-9	Authority to Halt Construction; Treatment of Discoveries	Submit confirmation that CRS and CR staff have stop-work authority and notification requirements.	Jessica Auch	> 30d pt gd		17-Dec-10	10-Dec-10	NA			
330	CEC	x	x		CUL-9	Authority to Halt Construction; Treatment of Discoveries	If cultural material is found, notify agencies (<24 hrs), Tribes (48hrs, as appropriate); submit a DPR 523 form; treat find in accordance with CRMMP.	Jessica Auch	< 24hr of discovery			Ongoing notification				
331	CEC		x		CUL-10	WEAP - Cultural Considerations	Implement CRMMP when within 30meters of these sites.	Jessica Auch	Ongoing							
332	CEC	x			CUL-10	WEAP - Cultural Considerations	Notify CPM that data recovery for small site has begun.	Jessica Auch	> 15d pt data recovery		1-Jan-11	21-Dec-10	NA			
332	CEC	x			CUL-10	WEAP - Cultural Considerations	Notify CPM that data recovery for small site has begun.Phase II	Jessica Auch	> 15d pt data recovery		10-Mar-11	9-Mar-11	3/28/2011			
334	CEC	x			CUL-10	WEAP - Cultural Considerations	Notify CPM when data recovery is complete.	Jessica Auch	< 1w of data recovery completion			1-Feb-11				
334	CEC	x			CUL-10	WEAP - Cultural Considerations	Notify CPM when data recovery is complete. Phase II	Jessica Auch	< 1w of data recovery completion		30-Mar-11					
335	CEC		x		CUL-11	Data Recovery for Large sites	Submit letter report of data recovery.	Jessica Auch	< 1w of data recovery completion							
335	CEC		x		CUL-11	Data Recovery for Large sites	Submit letter report of data recovery. Phase II	Jessica Auch	< 1w of data recovery completion		30-Mar-11					
336	CEC		x	x	CUL-11	Data Recovery for Large sites	Submit to CPM any draft research paper to be presented at a professional organization.	Jessica Auch	> 15d pt presentation							
338	CEC	x			CUL-11	Data Recovery for Large sites	Notify CPM of recovery at large sites.	Jessica Auch	> 45d pt gd at site		2-Dec-10	21-Dec-10	NA			
340	CEC		x		CUL-12	Surface Collection with Sampling for site CA-RIV-9073	Notify CMP of collection at CA-Riv-9072 is complete and PRIOR to CR gd in that location.	Jessica Auch	< 7d pt gd at site		25-Apr-11					
341	CEC	x			CUL-12	Surface Collection with Sampling for site CA-RIV-9074	Notify CPM that collection at CA-Riv-9072 will commence.	Jessica Auch	> 15d pt data recovery		1-Jan-11	9-Mar-11	3/28/2011			
343	CEC	x			CUL-12	Surface Collection with Sampling for site CA-RIV-9076	Submit a preliminary letter report detailing finds at CA-Riv-9072. Can be included with report for CUL-11.	Jessica Auch								
345	CEC	x	x		CUL-13	Flag and Avoid	CA-Riv-0260, CA-Riv-0663, and CA-Riv-9072: avoid impacts to these sites.	Jessica Auch	pt gd within 30m of site		16-Jan-11					
346	CEC	x	x		CUL-13	Flag and Avoid	Inspect flagged buffer zone around sites CA-Riv-0260, CA-Riv-0663, and CA-Riv-9072 monthly. Submit compliance documentation in the Monthly Compliance Report.	Jessica Auch	Monthly		16-Jan-11					
346	CEC	x	x		CUL-13	Flag and Avoid	Flag buffer zone around sites CA-Riv-0260, CA-Riv-0663, and CA-Riv-9072.	Jessica Auch	pt gd at site		1-May-11					
347	CEC				CUL-14		DELETED	Jessica Auch								
348	CEC				CUL-15		DELETED	Jessica Auch								
349	CEC	x			CUL-16	Native American Assessment of Impacts and Mitigation Recommendations for Ethnographic Resources	Submit results of Native American consultation.	Jessica Auch	> 15d pt construction		1-Jan-11				Requires response from BLM consultation. Pending.	
350	CEC	x			CUL-16	Native American Assessment of Impacts and Mitigation Recommendations for Ethnographic Resources	Notify CPM of consultation.	Jessica Auch	> 30d pt construction		17-Dec-10	12-Dec-10	NA			
350	CEC	x			CUL-16	Native American Assessment of Impacts and Mitigation Recommendations for Ethnographic Resources	Documentation that security gate/guard is in place.	Jessica Auch	pt grading		1-May-11					

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351	CEC	x			CUL-16	Native American Assessment of Impacts and Mitigation Recommendations for Ethnographic Resources	Consult with Native American representatives regarding to the McCoy Spring National Register Archaeological District and sites CA-Riv-0523, CA-Riv-3149, CA-Riv-4569, and CA-Riv-4699	Jessica Auch	pt construction		Ongoing through CEC specialist under CUL-1	Ongoing			Confirm with Chris/Bev and Beth that this condition is being met by the work being conducted by Dr. Lowell Bean (hired under CUL-1) to interview Native Americans.	
352	CEC	x			CUL-17	Historic Period Site Mapping and In-Field Artifact Analysis	Include in CRMMP a data recovery plan for the historic-period archaeological resources.	Jessica Auch	pt gd		16-Jan-11	1-Mar-11	Pending			
353	CEC	x			CUL-17	Historic Period Site Mapping and In-Field Artifact Analysis	Submit to CPM letter report that data recovery is complete.	Jessica Auch	< 7d of data recovery completion			2/1/2011 2/11/11	Approved 2/14/11			
354	CEC	x	x		CUL-17	Historic Period Site Mapping and In-Field Artifact Analysis	Implement CRMMP within 30 meters of these sites.	Jessica Auch	Ongoing							
355	CEC	x	x		CUL-17	Historic Period Site Mapping and In-Field Artifact Analysis	Notify CPM that historic-period site mapping and in-field artifact analysis will commence.	Jessica Auch	> 15d pt gd within 30m of site			17-Jan-11				
355	CEC	x	x		CUL-17	Historic Period Site Mapping and In-Field Artifact Analysis	Notify CPM that historic-period site mapping and in-field artifact analysis will commence. Ph II	Jessica Auch	> 15d pt gd within 30m of site			9-Mar-11	3/28/2011			
356	CEC		x		CUL-18	Compliance with BLN Programmatic Agreement	Comply with BLM Programmatic Agreement.	Jessica Auch	Ongoing							
357	CEC		x	x	HAZ-1	Hazardous Materials list of approved substances	Do not use hazmats not listed, or in quantities listed in App A.	Fluor / Operations	Ongoing							
358	CEC			x	HAZ-1	Hazardous Materials list of approved substances	Submit a list of haz mats contained at the facility in the Annual Compliance Report.	Fluor / Operations	Annually							
359	CEC		x		HAZ-2	Hazardous Materials Business Plan, Spill Prevention, Control and Countermeasure Plan, Process Safety Management Plan	Submit a final Hazardous Materials Business Plan.	Fluor	> 60d pt receipt of hazmat		1-Jul-12				assumed receipt June 2	
359	CEC		x		HAZ-2	Hazardous Materials Business Plan, Spill Prevention, Control and Countermeasure Plan, Process Safety Management Plan	Submit a final Spill Prevention, Control, and Countermeasure Plan.	Mosley	> 60d pt receipt of hazmat		2-Jul-12				assumed receipt June 2	
359	CEC		x		HAZ-2	Hazardous Materials Business Plan, Spill Prevention, Control and Countermeasure Plan, Process Safety Management Plan	Submit a final Process Safety Management Plan.	Fluor	> 60d pt receipt of hazmat		3-Jul-12				assumed receipt June 2	
360	CEC		x		HAZ-3	Safety Management Plan for Hazardous Material	Submit a Safety Management Plan.	Fluor	> 60d pt receipt of hazmat		1-Apr-11				assumed receipt June 2	
361	CEC		x	x	HAZ-3	Safety Management Plan for Hazardous Material	Implement Safety Management Plan.	Fluor / Operations	Ongoing							
362	CEC		x		HAZ-4	HTF pipe system isolation valves	Submit design drawings showing the number, location, and type of HTF isolation valves.	Fluor	> 30d pt const. of solar array		31-Aug-11					
363	CEC	x			HAZ-5	Construction Site Security Plan	Submit a Construction Security Plan Verification.	Fluor	> 30d pt construction		17-Dec-10	2-Dec-10	Approved 12/10/10			
364	CEC			x	HAZ-6	Operations Site Security Plan	Submit statement confirming all employee background checks are complete and appended to Security Plan as part of the Annual Compliance Report.	Fluor / Operations	Annually							
365	CEC		x		HAZ-6	Operations Site Security Plan	Submit a Operations Site Security Plan.	Fluor	> 30d pt receipt of hazmat		13-Jan-13					
366	CEC			x	HAZ-6	Operations Site Security Plan	Submit verification Security Plan includes all current hazmat transport vendor certifications as part of the Annual Compliance Report.	Fluor / Operations	Annually							
367	CEC		x		Public Health-1	Cooling Water Management Plan	Submit a Cooling Water Management Plan.	Fluor	> 60d pt cooling tower operation							
368	CEC	x			NOISE-1	Resident Notification- Pre-construction	Notify residents within 2 miles of the site and 0.5 mile of linears of start of construction. (Include phone # for noise complaints)	Fluor	> 15d pt gd		1-Jan-11	14-Jan-11				
369	CEC		x	x	NOISE-1	Resident Notification- Pre-construction	Maintain telephone number for noise complaints until facility is operational for one year.	Fluor / Operations	1yr							
370	CEC		x		NOISE-1	Resident Notification- Pre-construction	Post telephone number for noise complaints at the site during construction, visible to passersby.	Fluor	Ongoing						within 6 miles of athe nearest neighbor. No neighbors.	
371	CEC	x			NOISE-1	Resident Notification- Pre-construction	Submit statement and documentation of compliance to CPM.	Fluor	pt gd		16-Jan-11	14-Jan-11				
372	CEC		x	x	NOISE-2	Noise Complaint Process	Document, investigate, evaluate, and attempt to resolve all project-related noise complaints.	Fluor / Operations	Ongoing							
373	CEC		x	x	NOISE-2	Noise Complaint Process	Contact individual making complaint.	Fluor / Operations	< 24hr of receipt							
374	CEC		x	x	NOISE-2	Noise Complaint Process	Submit the Noise Complaint Resolution Form.	Fluor / Operations	< 5d of receipt							
375	CEC		x	x	NOISE-3	Noise Control Program	Make the Program available to OSHA upon request.	Fluor / Operations	Ongoing							
376	CEC	x			NOISE-3	Noise Control Program	Submit a Noise Control Program and a statement of commitment.	Fluor	> 30d pt gd		17-Dec-10	30-Nov-10	Approved 12/20/10			
377	CEC			x	NOISE-4	Occupational Noise Survey	Conduct an occupational noise survey.	Operations	following first sustained output of 90%							
378	CEC			x	NOISE-4	Occupational Noise Survey	Make the report available to OSHA and Cal/OSHA upon request.	Operations	Ongoing							
379	CEC			x	NOISE-4	Occupational Noise Survey	Submit report of survey findings.	Operations	< 30d after test							
380	CEC	x			Soil & Water-1	Drainage Erosion and Sedimentation Control Plan	Submit final Drainage Erosion and Sedimentation Control Plan. Phase II	Fluor	> 30d pt site mobilization		2-Apr-11	Prelim 3/9/11 Draft 3/22/11				
380	CEC	x			Soil & Water-1	Drainage Erosion and Sedimentation Control Plan	Submit final Drainage Erosion and Sedimentation Control Plan. PHASE I	Fluor	> 30d pt site mobilization		22-Dec-10	27-Dec-10	Approved 1/21/11			
381	CEC	x	x		Soil & Water-1	Drainage Erosion and Sedimentation Control Plan	Submit compliance documentation in the Monthly Compliance Report.	Fluor	Monthly							
382	CEC			x	Soil & Water-1	Drainage Erosion and Sedimentation Control Plan	Submit results of monitoring and maintenance activities in Annual Compliance Report.	Fluor / Operations	Annually							
383	CEC		x	x	Soil & Water-1	Drainage Erosion and Sedimentation Control Plan	Update and maintain the DESCP for the life of the Project.	Fluor / Operations	Ongoing							
384	CEC			x	Soil & Water-2	GW Level Monitoring, Mitigation and Reporting	Submit documentation of mitigation to well owners.	Worley Parsons	< 60d after start of operation		29-Jun-13					
385	CEC	x	x		Soil & Water-2	GW Level Monitoring, Mitigation and Reporting	Map groundwater levels within the CVGB within 10 miles of the site. Update trend plots and statistical analyses, as data is available.	Worley Parsons	Ongoing							

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386	CEC		x		Soil & Water-2	GW Level Monitoring, Mitigation and Reporting	Collect water from wells, seeps and springs quarterly and at the end of the construction. Submit report on water samples, including all calculations and assumptions quarterly.	Worley Parsons	< 30d following quarter end		30-Apr-11					
387	CEC		x	x	Soil & Water-2	GW Level Monitoring, Mitigation and Reporting	Submit documentation of monetary compensation to well owners.	NextEra	< 30d of payment							
388	CEC		x	x	Soil & Water-2	GW Level Monitoring, Mitigation and Reporting	If GW levels are lowered >5ft due to Project pumping, provide compensation or mitigation to well owners.	NextEra	Ongoing							
389	CEC		x	x	Soil & Water-2	GW Level Monitoring, Mitigation and Reporting	Monitor quarterly operational parameters (i.e., pumping rate) of the water supply wells.	Worley Parsons	quarterly							
390	CEC			x	Soil & Water-2	GW Level Monitoring, Mitigation and Reporting	Submit a 5 year monitoring report.	Operations	5ys after start of operation							
391	CEC	x			Soil & Water-2	GW Level Monitoring, Mitigation and Reporting	Send notices to all owners and conduct a well reconnaissance within 2 miles of the project.	Worley Parsons				completed				
392	CEC		x	x	Soil & Water-2	GW Level Monitoring, Mitigation and Reporting	Fourth quarterly report serves as annual report. Include trend analysis. Determine where pumping has caused drawdown >5ft below baseline.	Worley Parsons / Operations	Jan-31 Annually							
393	CEC		x	x	Soil & Water-2	GW Level Monitoring, Mitigation and Reporting	If required, compensate landowners by March 31.	NextEra	Mar-31 Annually							
394	CEC		x		Soil & Water-2	GW Level Monitoring, Mitigation and Reporting	Notify owners within one month of CPM approving compensation analysis.	Worley Parsons	< 1m CPM approval of comp. analysis							
395	CEC		x	x	Soil & Water-2	GW Level Monitoring, Mitigation and Reporting	If GW levels are lowered and pumps exposed, reimburse well owner to lower pumps. If pumps cannot be lowered, deepen the well(s) or construct new ones.	NextEra	Ongoing							
396	CEC		x	x	Soil & Water-2	GW Level Monitoring, Mitigation and Reporting	Collect water level measurements semi-annually after the first year.	Worley Parsons / Operations	semi-annually after first yr of monitoring		17-Jan-12					
397	CEC	x	x	x	Soil & Water-2	GW Level Monitoring, Mitigation and Reporting	Submit monitoring reports, complaints, studies and data.	Worley Parsons / Operations	< 10d of receipt							
398	CEC	x			Soil & Water-2	GW Level Monitoring, Mitigation and Reporting	Monitor wells, seeps and springs to establish preconstruction conditions.	Worley Parsons			17-Dec-10	completed				
399	CEC	x			Soil & Water-2	GW Level Monitoring, Mitigation and Reporting	Submit report of all pre-construction items, including calculations and assumptions.	Worley Parsons	> 30d pt construction		17-Dec-10					
400	CEC			x	Soil & Water-2	GW Level Monitoring, Mitigation and Reporting	CPM to evaluate GW level monitoring program for necessity or modification every 5 years.	CPM	5yrs							
401	CEC	x			Soil & Water-2	GW Level Monitoring, Mitigation and Reporting	Submit a Groundwater Level Monitoring and Reporting Plan to the CPM for review and approval.	Worley Parsons	> 30d pt construction		17-Dec-10	3-Dec-10	Approved 12/21/10			
402	CEC		x		Soil & Water-3	Groundwater Well Impact Compensation	Notify all owners of the impacted wells within one month of the CPM approval of the compensation analysis for increase energy costs.	Worley Parsons	< 1m CPM approval of comp. analysis							
403	CEC		x		Soil & Water-3	Groundwater Well Impact Compensation	Submit all calculations, calculation agreement letters signed by the well owners, and contact information for landowners that do not agree with calculations.	Worley Parsons	Ongoing							
404	CEC		x		Soil & Water-3	Groundwater Well Impact Compensation	Submit all documentation and calculations r.e. compensation for energy costs associated with additional lift requirements.	Worley Parsons	< 30d after approval							
405	CEC		x	x	Soil & Water-3	Groundwater Well Impact Compensation	Provide compensation by March 31 of each year. (one time for lump sum payments).	NextEra	Mar-31 Annually							
406	CEC		x	x	Soil & Water-3	Groundwater Well Impact Compensation	Submit a report of compensation provided for increased energy costs.	NextEra	< 30d of payment							
407	CEC		x	x	Soil & Water-4	Project GW Wells, Pre-Well Installation	Submit to CPM two copies of all operational reports required by the County of Riverside and any changes to operations of well.	Operations	Ongoing							
408	CEC	x	x		Soil & Water-4	Project GW Wells, Pre-Well Installation	Submit a copy of County concurrence that the proposed well construction activities comply with all county well requirements and the water well permit program	Fluor	> 30d pt construction of GW well		1-Apr-11					
409	CEC		x		Soil & Water-4	Project GW Wells, Pre-Well Installation	Submit documentation that drilling was conducted in compliance with 23 CCR, sections 2510 et seq,	Fluor	< 15d after GW well completion		16-Jul-11					
410	CEC		x		Soil & Water-4	Project GW Wells, Pre-Well Installation	Submit two copies of any proposed well permit changes.	Fluor	< 10d of submittal or receipt							
411	CEC		x		Soil & Water-4	Project GW Wells, Pre-Well Installation	Submit a Well Completion Report. Concurrently, submit a copy of well drilling logs, water quality analyses, and any inspection reports.	Fluor	< 60d after GW well constuction		29-Aug-11					
412	CEC	x	x		Soil & Water-4	Project GW Wells, Pre-Well Installation	Submit to CPM a copy of the water well construction packet submitted to the County of Riverside.	Fluor	> 60d pt construction of GW well		2-Mar-11	31-Mar-11				
413	CEC		x		Soil & Water-5	Construction and Operation Water Use	Submit a semi-annual report of construction water use.	Fluor	semi-annually		30-Jun-11					
414	CEC		x	x	Soil & Water-5	Construction and Operation Water Use	Submit an annual report of water usage (g/month and total).	Fluor / Operations	Annually							
415	CEC		x		Soil & Water-5	Construction and Operation Water Use	GW use during construction must not exceed an annual average of 1,368 afy.	Fluor	Ongoing							
416	CEC			x	Soil & Water-5	Construction and Operation Water Use	GW use during operations must not exceed 202 afy	Operations	Ongoing							
417	CEC	x			Soil & Water-5	Construction and Operation Water Use	Install and maintain metering devices as part of the water supply and distribution system (gpd and total). Submit compliance documentation.	Fluor	> 30d pt construction		17-Dec-10	31-Jan-11				
418	CEC		x	x	Soil & Water-6	Waste Discharge Requirements	Submit compliance documentation for the WDRs in Appendices B, C, and D.	Worley Parsons	< 60d pt waste discharge		2-Mar-13					
419	CEC		x	x	Soil & Water-6	Waste Discharge Requirements	Submit annual waste discharge permit fee associated with this facility to the Water Boards	Worley Parsons								
419	CEC		x	x	Soil & Water-6	Waste Discharge Requirements	Submit (for rev and approve) any change to the design, construction, or operation of the evaporation basins, treatment units, or associated storm water system pt initiating changes.	Worley Parsons	pt initiating changes							
420	CEC		x	x	Soil & Water-6	Waste Discharge Requirements	Submit all monitoring reports required by the WDRs and details of any nonconformance.	Worley Parsons	Ongoing							
421	CEC			x	Soil & Water-7	Septic System and Leach Field Reqs	Comply with County and State reqs for sanitary waste disposal facilities.	Operations	Ongoing							

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422	CEC		x		Soil & Water-7	Septic System and Leach Field Reqs	Submit engineering report on the septic system and leach field design, operation, maintenance, and loading impact to groundwater to County. Submit County's assessment of compliance.	Fluor	> 30d pt start of operations		31-Mar-13					
423	CEC	x			Soil & Water-8	Revised Project Drainage Report and Plans	Submit a Revised Project Drainage Report with the 30 percent Grading and Drainage Plans.	Fluor	> 60d pt site mobilization (plant)		2-Apr-11	Prelim 3/9/11 Draft 3/22/11				
424	CEC		x		Soil & Water-9	Detailed FLO-2D Analysis	Submit a detailed FLO-2D analysis with the 30 percent Grading and Drainage Plans and revised Project Drainage Report.	Fluor	> 60d pt site mobilization (plant)		2-Apr-11	Prelim 3/9/11 Draft 3/22/11				
425	CEC		x		Soil & Water-10	Collector and Conveyance Channel Compliance with RCFCWCD	Submit two copies of the 30 percent channel design drawings.	Fluor	> 60d pt site mobilization (plant)		2-Apr-11	Prelim 3/9/11				
426	CEC		x		Soil & Water-11	Channel Erosion Protection	Incorporate channel erosion protection methods (except "I") in the Grading and Drainage Plans and all submittals required in SOIL&WATER-8 through SOIL&WATER-10.	Fluor	> 60d pt site mobilization (plant)		2-Mar-11	Prelim 3/9/11				
427	CEC		x		Soil & Water-12	Non-Transient Non-Community Water System	Obtain a permit to operate a non-transient, non-community water system with the County.Potable Water	Fluor	> 60d pt operation		1-Mar-13					
428	CEC			x	Soil & Water-12	Non-Transient Non-Community Water System	Designate a CA Cert'd Water Treatment Plant Operator as well as the technical, managerial and financial requirements as prescribed by State law.	Operations								
429	CEC			x	Soil & Water-12	Non-Transient Non-Community Water System	Submit updates annually for all monitoring requirements and submittals to County related to the permit, and proof of annual renewal of the operating permit.	Operations	Annually							
430	CEC		x	x	Soil & Water-13	Channel Maintenance Program	Supervise the implementation of a Channel Maintenance Program.	Fluor / Operations	Ongoing							
431	CEC		x		Soil & Water-13	Channel Maintenance Program	Ensure the Project Construction Manager receive training on the Channel Maintenance Program.	Fluor	Ongoing							
432	CEC		x		Soil & Water-13	Channel Maintenance Program	Submit two copies a Channel Maintenance Program.	Fluor	> 60d pt start of project related activity		2-Mar-11					
433	CEC			x	Soil & Water-13	Channel Maintenance Program	Submit a Channel Maintenance Program Annual Report, Channel Maintenance Work Plan, and Lessons Learned with the Annual Compliance Report.	Operations	Annually							
434	CEC	x			Soil & Water-13	Channel Maintenance Program	Submit written commitment to adopt and implement the Program.	Fluor	> 60d pt start of project related activity		2-Mar-11					
435	CEC	x			Soil & Water-14	Decommissioning and Closure Plan - Water and Wind Considerations	Submit Decommissioning Plans.	Worley Parsons	> 60d pt site mobilization		17-Nov-10	22-Oct-10	Approved 10/29/10			
436	CEC			x	Soil & Water-14	Decommissioning and Closure Plan - Water and Wind Considerations	Submit amended Decommissioning Plans should the decommissioning scenario change in the future.	Operations	Ongoing							
437	CEC		x	x	Soil & Water-15	Colroado River Flow Mitigation, Water Supply Plan	Implement Water Supply Plan mitigation measures.	Jeff Harvey	Ongoing							
438	CEC	x			Soil & Water-15	Colroado River Flow Mitigation, Water Supply Plan	Submit a Water Supply Plan.	Jeff Harvey	> 30d pt GW extraction for const.		17-Dec-10	12/3/2010 resub. 2/1/11	Pending - Comments received 1/4/11		will be submitted mid march	
439	CEC			x	Soil & Water-16	Groundwater Production Monitoring	File an annual "Notice of Extraction and Diversion of Water" with the SWRCB. Include a copy of the Notice in the Annual Compliance Report.	Fluor / Operations	Annually							
440	CEC	x			Soil & Water-17	Ground Subsidence Monitoring and Action Plan	Submit the Ground Subsidence Monitoring and Action Plan.	Worley Parsons	> 30d pt GW extraction for const.		17-Dec-10	8-Dec-10	Approved 12/23/10			
441	CEC		x		Soil & Water-17	Ground Subsidence Monitoring and Action Plan	Submit quarterly reports presenting data and comparison to thresholds beginning 3 months following GW production.	Worley Parsons	quarterly 3m after GW production							
442	CEC				Soil & Water-17	Ground Subsidence Monitoring and Action Plan	Construct one monument monitoring station per production well or a minimum of three stations.	Worley Parsons	1-Jul-11							
443	CEC			x	Soil & Water-17	Ground Subsidence Monitoring and Action Plan	Submit a 5-yr monitoring report summarizing findings to date.	Operations	5yrs after GW production							
445	CEC				Soil & Water-18	Water Policy Compliance Water Supply Plan	DELETED									
446	CEC	x			Soil & Water-19	Estimation of Impacts to PVMGB	Submit a report detailing results of the PVMGB underflow depletion modeling effort.	Worley Parsons	< 30d pt site mobilization		15-Mar-11	19-Mar-11				
447	CEC	x			Soil & Water-20	Groundwater Quality Monitoring and Reporting Plan	Submit a Groundwater Quality Monitoring and Reporting Plan > 6 weeks pt start of construction.	Worley Parsons	> 45d pt construction		2-Dec-10	27-Oct-10	Approved 12/21/10			
448	CEC		x	x	Soil & Water-20	Groundwater Quality Monitoring and Reporting Plan	Monitor GW quality and levels semi-annually and submit data semi-annually.	Worley Parsons	semi-annually		30-Jun-11					
449	CEC	x			Soil & Water-20	Groundwater Quality Monitoring and Reporting Plan	Submit a Well Monitoring Installation and Groundwater Quality Network Report.	Worley Parsons	> 30d pt construction		17-Dec-10	3-Dec-10	Approved 12/21/10			
450	CEC	x			Soil & Water-20	Groundwater Quality Monitoring and Reporting Plan	Commence groundwater quality monitoring prior to construction.	Worley Parsons	pt construction		8-Dec-10	completed				
451	CEC	x			Soil & Water-20	Groundwater Quality Monitoring and Reporting Plan	Submit GW quality and level monitoring data.	Worley Parsons	> 30d pt GW extraction for const.		17-Dec-10	3-Dec-10	NA			
452	CEC	x			TRANS-1	Traffic Control Plan	Submit copies of comment letters received from County and Caltrans and any associated changes to Traffic Plan.	Fluor	> 30d pt construction		17-Dec-10	16-Dec-10	NA		Tommy to follow up with CALTRANS and get their comments to CPM ASAP	
453	CEC	x			TRANS-1	Traffic Control Plan	Submit a Traffic Control Plan plus a copy of the transmittal letter to Caltran and County.	Fluor	> 60d pt gd		18-Nov-10	11/23/2010 resubmitted 1/6/11 1/14/11	Approved 1/17/11			
453	CEC	x			TRANS-1	Traffic Control Plan	Submit a Traffic Control Plan plus a copy of the transmittal letter to Caltran and County. Phase II	Fluor	> 60d pt gd		2-Mar-11				Is this needed for Ph II ?	
455	CEC	x	x		TRANS-2	Vehicle Weight Limits	Retain copies of transportation permits and supporting documentation on-site for inspection if requested.	Fluor								
456	CEC	x			TRANS-2	Vehicle Weight Limits	Obtain necessary overweight/oversized and other transportation permits required by Caltrans and the County. Report receipt of permits in Monthly Report.	Fluor	pt site mobilization		1-May-11					
457	CEC	x	x		TRANS-3	Public ROW Encroachment	Obtain necessary encroachment permits from Caltrans and all relevant jurisdictions. Report receipt of permits in Monthly Report.	Fluor	monthly		16-Jan-11					
458	CEC		x	x	TRANS-3	Public ROW Encroachment	Retain copies of encroachment permits onsite for inspection for at least six months after the start of commercial operation.	Operations	> 6m after start of operation		1-Jul-13					

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460	CEC			x	TRANS-4	Hazmat Transport Permits/Licenses	Retain copies of hazardous material transport permits onsite for inspection.	Operations	> 6m after start of operation		1-Jul-13					
462	CEC	x	x		TRANS-4	Hazmat Transport Permits/Licenses	Obtain necessary hazardous material transport permits from Caltrans and all relevant jurisdictions. Report receipt in Monthly Report.	Fluor	pt gd		1-May-11					
463	CEC	x			TRANS-5	Restoration of Public Roads, Easements, and ROWs	Submit photographs or video of all affected public roads, easements and ROWs.	Fluor	> 30d pt site mobilization		17-Dec-10	21-Dec-10	NA			
464	CEC	x			TRANS-5	Restoration of Public Roads, Easements, and ROWs	Notify the County and Caltrans of schedule for construction.	Fluor	pt site mobilization		16-Jan-11	Completed 1/24/11	NA			
465	CEC		x	x	TRANS-5	Restoration of Public Roads, Easements, and ROWs	Restore all public roads, easements, and rights-of-way damaged due to project-related construction activities.	Fluor	Ongoing							
466	CEC			x	TRANS-5	Restoration of Public Roads, Easements, and ROWs	Submit letter of ROW repair completion, including concurrence from Caltrans or the County.	Fluor								
467	CEC			x	TRANS-5	Restoration of Public Roads, Easements, and ROWs	Meet with CPM, Caltrans and the County to identify sections of public ROW needing repair < 60d after construction. Establish a schedule for repairs.	Fluor	< 60d after construction completion		29-Aug-14					
468	CEC		x		TLSN-1	Compliance with Cal Pub Utility Commissions (Tline)	Construct Tline in accordance with CA PUC's req's, California Code of Regulations, and Southern California Edison's EMF reduction guidelines.	Fluor	Ongoing							
469	CEC		x		TLSN-1	Compliance with Cal Pub Utility Commissions (Tline)	Submit letter signed by CA registered electrical engineer affirming the Tlines will be constructed in accordance with the stated requirements.	Fluor	> 30d pt construction of Tline		24-Jun-12					
471	CEC			x	TLSN-2	Pre- and Post- Energization Maesurements	Measure strengths of EMF after energization according to (ANSI/IEEE) standard procedures < 6months of start of operations.	Operations	< 60d of test							
471	CEC		x	x	TLSN-2	Pre- and Post- Energization Maesurements	Measure strengths of EMF before energization according to (ANSI/IEEE) standard procedures. Submit measurement report.	Operations	< 60d of test							
472	CEC			x	TLSN-3	Combustible Material Inspections	Submit summary of inspection results and fire prevention activities in the Annual Compliance Report for the first 5 years of operation.	Operations	5yrs Annually							
473	CEC			x	TLSN-3	Combustible Material Inspections	Maintain Tline ROW free of combustible material.	Operations	Ongoing							
474	CEC		x		TLSN-4	Metallic Object Grounding in ROW	Submit compliance documentation.	Fluor	> 30d pt energization		2-Dec-12					
475	CEC		x		TLSN-4	Metallic Object Grounding in ROW	Ensure all permanent metallic objects within the Tline ROW are grounded.	Fluor	Ongoing							
476	CEC	x	x		VIS-1	Surface Treatment of Non-Mirror Project Structures and Buildings	Submit a Surface Treatment Plan.	Fluor	> 30d pt ordering		30-Jun-11				ordering schedule?	
477	CEC		x	x	VIS-1	Surface Treatment of Non-Mirror Project Structures and Buildings	Notify CPM when surface treatment is complete and ready for inspection. Submit photographs of treated structures upon completion.	Fluor	upon completion of installation							
478	CEC			x	VIS-1	Surface Treatment of Non-Mirror Project Structures and Buildings	Include a status report regarding surface maintenance in the Annual Compliance Report.	Operations	Annually							
479	CEC		x		VIS-2	Temporary and Permanent Exterior Lighting	Submit a Lighting Mitigation Plan.	Fluor	> 60d pt ordering permanent lighting		30-Jun-11				purchase schedule?	
480	CEC		x	x	VIS-2	Temporary and Permanent Exterior Lighting	Notify CPM of lighting complaint resolution/implementation.	Fluor	< 48hr of resolution							
481	CEC		x		VIS-2	Temporary and Permanent Exterior Lighting	Notify CPM that permanent lighting is installed and ready for inspection.	Fluor	pt operation		30-Apr-13					
482	CEC		x		VIS-2	Temporary and Permanent Exterior Lighting	If after inspection lighting modifications are needed, notify CPM that modifications are complete.	Fluor	< 30d after notification							
483	CEC		x	x	VIS-2	Temporary and Permanent Exterior Lighting	Submit any received lighting complaints. Include proposal to resolve and schedule.	Fluor	< 48hr of complaint receipt							
484	CEC		x	x	VIS-2	Temporary and Permanent Exterior Lighting	Submit a copy of complaint resolution report.	Fluor	< 30d of resolution							
485	CEC		x		VIS-2	Temporary and Permanent Exterior Lighting	Consult with CPM regarding documentation required in the Lighting Mitigation Plan.	Fluor	> 90d pt ordering permanent lighting		30-Jun-11				ordering schedule?	
486	CEC		x		VIS-2	Temporary and Permanent Exterior Lighting	Consult with CPM regarding documentation required in the Lighting Mitigation Plan.	Fluor	> 30d pt ordering temp lighting		1-Apr-11					
487	CEC				VIS-3	Tline setback from I-10	DELETED									
488	CEC		x		VIS-4	Reflective Glare Mitigation	Construct perimeter chain link using dark or earth-toned opaque privacy slats of a minimum 8 feet in height.	Fluor	Ongoing		4-Jun-12	Oct-11				
489	CEC		x	x	VIS-4	Reflective Glare Mitigation	Submit copy of complaint glare resolution form.	Fluor / Operations	< 30d of receipt							
490	CEC		x	x	VIS-4	Reflective Glare Mitigation	Submit any glare complaints, including resolution and schedule.	Fluor / Operations	< 48hr of complaint receipt							
491	CEC		x	x	VIS-4	Reflective Glare Mitigation	Notify CPM resolution/implementation for glare complaints.	Fluor / Operations	< 48hr of resolution							
492	CEC		x		VIS-4	Reflective Glare Mitigation	Submit a fencing plan describing mitigation for off-site glare.	Fluor	> 90d pt fence construction		2-Oct-11				assume Jan 1, 2012 for start of perm fence installation	
493	CEC		x		VIS-5	Visual Mitigation and Re-vegetation of Staging Area	Submit a revegetation plan for the staging area.	Fluor	> 60d pt operation		2-Mar-13					
494	CEC	x			VIS-5	Visual Mitigation and Re-vegetation of Staging Area	Meet with CPM to discuss how staging area site plan will minimize visibility from rest area.	Fluor	> 90d pt construction		18-Oct-10	12/28/2010 1/14/11	Approved 1.17.11			
495	CEC	x			VIS-6	Reduction of Form, Line and Texture Contrast	Meet with the CPM to discuss incorporation of visual contrast reduction into the design plans.	Fluor	> 90d pt construction		18-Oct-10	12-Oct-10	Approved 10/25/10			
496	CEC		x		WASTE-1	Contaminated Soil Assessment and Remediation	If contaminated soil is found during construction, consult with Department of Toxic Substances Control, assess and remediate contamination in consultation with DTSC and with approval from CPM.	Fluor	Ongoing							
497	CEC	x			WASTE-2	PE or PG - Staff Assignment	Submit resume for a PE or PG.	NextEra	> 30d pt site mobilization		17-Dec-10	4-Nov-10	Approved 11/30/10			
498	CEC		x		WASTE-3	Contaminated Soil Assessment and Remediation - PE or PG responsibilities	If potential contamination results in stop-work call by PE or PG, notify CPM within 24hrs.	Fluor	< 24hr after stop work							
499	CEC		x		WASTE-3	Contaminated Soil Assessment and Remediation - PE or PG responsibilities	If potential contamination is identified, the PE or PG must inspect and submit report to agencies any need for sampling/remediation.	Fluor	< 5d of receipt							
500	CEC	x			WASTE-4	Construction Waste Management Plan	Submit a Construction Waste Management Plan.	Fluor	> 30d pt construction		17-Dec-10	2-Dec-10	Approved 12/16/10			

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501	CEC	x			WASTE-5	UXO Identification, Training and Reporting Plan	Submit a UXO Identification, Training and Reporting Plan.	Tetra Tech	> 30d pt construction		17-Dec-10	2-Dec-10	Approved 12/21/10			
503	CEC		x	x	WASTE-6	Haz Waste Generator Idientification Number	Submit documentation of any new or revised hazardous waste generation notifications in the following Monthly Compliance Report.	Fluor	Monthly		Monthly					
505	CEC	x	x	x	WASTE-6	Haz Waste Generator Idientification Number	Obtain a hazardous waste generator identification number from USEPA prior to generating any hazardous waste. Retain a copy onsite.	Mosley/Jenny	pt generating haz waste		30-Apr-13				KD indicated this is only needed for operations. Not construction.	
506	CEC		x	x	WASTE-7	Waste Management-related Enforcement Action Notification	Notify CPM of an impending waste-management enforcement action and owners response/resolution.	Fluor	< 10d of notification from authorities							
507	CEC				WASTE-8	Reuse/Recycling Plan	DELETED									
508	CEC			x	WASTE-9	Operation Waste Management Plan	Submit actual volume of waste generated and management methods used in each Annual Compliance Report.	Mosley	Annually							
509	CEC		x		WASTE-9	Operation Waste Management Plan	Submit the Operation Waste Management Plan.	Fluor	> 30d pt operation		31-Mar-13					
510	CEC		x		WASTE-9	Operation Waste Management Plan	Submit any required revisions of Ops Waste Plan.	Fluor	< 20d of notification from CPM							
511	CEC			x	WASTE-9	Operation Waste Management Plan	Update Operations Waste Management Plan as necessary.	Operations	Ongoing							
512	CEC			x	WASTE-10	HTF Contaminated Soil Hazard assessment	Document all HTF releases. If > 42 gallons, notify agencies and provide analysis of results in accordance with WASTE-10.	Operations	< 28d of release date							
512	CEC		x	x	WASTE-11	HAZMAT Waste Release/Spill Documentation and Corrective Actions	Submit release/spill documentation . If the release was reported, include agency communication.	Fluor / Operations	< 30d of release date							
514	CEC		x	x	WASTE-11	HAZMAT Waste Release/Spill Documentation and Corrective Actions	Document, clean up, and dispose of hazmat released > EPA's reportable quantities in accordance with federal, state, and local requirements.	Fluor / Operations	Ongoing							
515	CEC	x			Worker Safety-1	Project Construction Safety and Health Program	Submit the Construction Emergency Action Plan and the Fire Prevention Plan to Riverside County Fire Department for review and comment prior to CPM submittal.	Fluor/Tomey Pouncy	pt CPM submittal		3-Dec-10	completed	Approved 1/14/11			
516	CEC	x			Worker Safety-1	Project Construction Safety and Health Program	Submit the Project Construction Safety and Health Program, to include Personal Protective Equipment Program; Exposure Monitoring Program; Injury and Illness Prevention Program; Heat Stress Protection Plan; Emergency Action Plan; and a Construction Fire Prevention Plan.	Fluor	> 30d pt construction		17-Dec-10	12/16/2010 1/13/11	Approved 1/14/11			
517	CEC		x	x	Worker Safety-2	Project Operations Safety and Health Program	Submit a Project Operations and Maintenance Safety and Health Program to include: Injury and Illness Prevention Plan; Operation Heat Stress Protection Plan; BMPs for the storage and application of herbicides; Emergency Action Plan; Hazardous Materials Management Program; Fire Prevention Plan; and Personal Protective Equipment Program.	Fluor/Mosley	> 30d pt first fire or commissioning		Aug. 12, 2012				Submit draft to the agency	
518	CEC		x		Worker Safety-2	Project Operations Safety and Health Program	Submit The Operations Fire Prevention Plan and the Emergency Action Plan to Riverside County Fire Department for review and comment.	Mosley	pt CPM submittal		Aug. 12, 2012					
519	CEC	x			Worker Safety-3	Construction Safety Supervisor - Staff Assignment	Submit name and contact information for the Construction Safety Supervisor (CSS).	Fluor	> 30d pt site mobilization		17-Dec-10	11/16/2010 1/11/10 1/18/11 4/4/11	Complete 4/2011			
520	CEC	x	x		Worker Safety-4	Construction Safety Supervisor - Staff Assignment	CSS to include compliance documentation in Monthly Compliance Report.	Fluor	Monthly							
521	CEC	x			Worker Safety-4	CBO Payments	Submit verification of agreement with CBO for a Safety Monitor to CPM.	NextEra	> 60d pt construction		17-Nov-10	3-Nov-10	NA			
522	CEC	x			Worker Safety-4	CBO Payments	Post payment to CBO for a Safety Monitor.	NextEra	TBD w CBO		1-Jan-11	14-Jan-11				
523	CEC		x	x	Worker Safety-5	Automatic External Defibrillator onsite	Install a portable automatic external defibrillator (AED) on site during construction and operations.	Fluor / Operations	Ongoing		1-May-11					
524	CEC	x	x	x	Worker Safety-5	Automatic External Defibrillator onsite	Conduct AED training program in accordance with CPM-approved program.	Fluor / Operations	Ongoing		1-May-11					
525	CEC	x			Worker Safety-5	Automatic External Defibrillator onsite	Submit verification that AED exists onsite and the training and maintenance program.	Fluor	> 60d pt site mobilization		17-Nov-10	3-Nov-10	Approved 1.14.11			
526	CEC		x		Worker Safety-6	Emergency Access Gate, Spur Road	Submit to the RCFD and CPM preliminary plans of location and details for a second access gate to the site.	Fluor	> 60d pt site mobilization (plant)		2-Mar-11					
527	CEC		x		Worker Safety-6	Emergency Access Gate, Spur Road	Submit revised and final plans for second access gate. Include letter or statement regarding comments from RCFD.	Fluor	> 30d pt site mobilization (plant)		1-Apr-11					
528	CEC		x		Worker Safety-6	Emergency Access Gate, Spur Road	Submit verification that all-terrain fire engines have been delivered and acceptable to RCFD. (see text for alternative measures requirements)	Fluor/McCord	> 180d pt receipt of HTF		16-Jul-12					
529	CEC	x			Worker Safety-7	Riv Co Fire Department, Capital and Operating Costs Funding	Submit either: agreement with the RCFD re funding for capital costs for fire protection/response OR documentation that a letter of credit has been provided to the RCFD and will continue annually.	NextEra	> 30d pt site mobilization		17-Dec-10	12/21/2010 1/12/11	NA			
530	CEC			x	Worker Safety-7	Riv Co Fire Department, Capital and Operating Costs Funding	(if opted), provide letter of credit to RCFD annually.	NextEra	Annually							
531	CEC	x			Worker Safety-8	Dust Control Plan	Submit Dust Control Plan.	Fluor w/ Tt support	> 60d pt site mobilization		17-Nov-10	1-Nov-10	Approved 1/13/11			
532	CEC			x	Worker Safety-9	Riv Co Fire Dept Joint Training Exercises	Include joint exercise training documentation with the RCFD and other solar plants in the annual compliance report.	Operations	pt start of commissioning Annually							
533	CEC		x		Worker Safety-9	Riv Co Fire Dept Joint Training Exercises	Submit verification that a joint training program with the RCFD is established.	Operations	> 10d pt commissioning		20-Apr-13					
534	CEC			x	Worker Safety-9	Riv Co Fire Dept Joint Training Exercises	Host the annual training on a rotating yearly basis with the other solar power plants.	Operations	Rotate annually							
535	CEC		x	x	GEN-1	2007 Ca Buidling Standards Code Compliance	Provide the CPM a copy of the certificate of occupancy (CO).	BV/CPM	< 30d of receipt							
536	CEC		x		GEN-1	2007 Ca Buidling Standards Code Compliance	Once the CO issued, notify CPM pt any addition, alteration, moving, demolition, repair, or maintenance on any portion(s) of the completed facility subject to CBO approval.	BV/CPM	> 30d pt activity							
537	CEC		x		GEN-1	2007 Ca Buidling Standards Code Compliance	Submit a statement that all facility designs, construction, installation, and inspection requirements of the LORS and CEC's decision have been met.	Fluor	< 30d after receipt of CO							

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538	CEC	x	x		GEN-2	Facility Design Submittals to CBO and CPM	Include updated schedule of facility design submittals, and master drawing and master specifications in the Monthly Compliance Report.	Fluor	Monthly		4-Dec-10	17-Nov-10	NA			
539	CEC	x			GEN-2	Facility Design Submittals to CBO and CPM	Submit a schedule of facility design submittals, and master drawing and master specifications lists before submitting the initial engineering designs for CBO review.	Fluor	< 60d pt grading		17-Nov-10	17-Nov-10	Approved 12.20.10			
					Gen 2		Revise list	Flour								
540	CEC	x	x	x	GEN-3	CBO Payments	Submit payments to the CBO in accordance with the agreement between the project owner and the CBO.	NextEra	ongoing							
541	CEC	x	x	x	GEN-3	CBO Payments	Submit a copy of the CBO's receipt of payment to the CPM in the next monthly compliance report indicating that applicable fees have been paid.	NextEra	< 30d Monthly		5-Jan-11					
542	CEC	x			GEN-4	Resident Engineer - Staff Assignment	Assign a California- registered architect, or a structural or civil engineer, as the resident engineer (RE) in charge of the project.	Fluor	> 30d pt grading		17-Dec-10	14-Jan-11				
543	CEC	x			GEN-4	Resident Engineer - Staff Assignment	Notify the CPM of the CBO's approvals of the RE and other delegated engineer(s).	Fluor	< 5d of approval		8-Dec-10	30-Dec-10	Approved 1/19/11			
544	CEC	x			GEN-5	Civil Engineer or Structural Engineer - Staff Assignment	Submit resume of the soils (geotechnical) engineer.	Fluor	> 30d pt grading		17-Dec-10	1-Dec-10	Approved			
545	CEC	x			GEN-5	Civil Engineer or Structural Engineer - Staff Assignment	Notify CPM of CBO approval of soils (geotechnical) engineer.	Fluor	< 5d of approval		8-Dec-10	30-Dec-10	NA			
546	CEC	x			GEN-5	Civil Engineer or Structural Engineer - Staff Assignment	Submit resume of the civil engineer.	Fluor	> 30d pt grading		17-Dec-10	1-Dec-10	Approved			
547	CEC	x			GEN-5	Civil Engineer or Structural Engineer - Staff Assignment	Submit resume of the mechanical engineer .	Fluor	> 30d pt construction		17-Dec-10	1-Dec-10	Approved			
548	CEC	x			GEN-5	Civil Engineer or Structural Engineer - Staff Assignment	Submit resume of the engineering geologist.	Fluor	> 30d pt grading		17-Dec-10	1-Dec-10	Approved			
549	CEC	x			GEN-5	Civil Engineer or Structural Engineer - Staff Assignment	Notify CPM of CBO approval of civil eng assignment.	Fluor	< 5d of approval		8-Dec-10	21-Dec-10	NA			
550	CEC	x			GEN-5	Civil Engineer or Structural Engineer - Staff Assignment	Notify CPM of CBO approval of mech eng assignment.	Fluor	< 5d of approval		8-Dec-10	21-Dec-10	NA			
551	CEC	x			GEN-5	Civil Engineer or Structural Engineer - Staff Assignment	Notify CPM of CBO approval of eng. geologist assignment.	Fluor	< 5d of approval		8-Dec-10	21-Dec-10	NA			
552	CEC		x		GEN-6	Special Inspector(s) - Staff Assignment	Include a copy of the CBO's approval of the qualifications of all special inspectors in the next monthly compliance report.	Fluor	Monthly							
553	CEC		x		GEN-6	Special Inspector(s) - Staff Assignment	Notify the CPM of the CBO's approval of replacement inspector.	Fluor	< 5d of approval							
554	CEC		x		GEN-6	Special Inspector(s) - Staff Assignment	If the special inspector is reassigned or replaced, submit resume of replacement to CBO.	Fluor	< 5d of replacement							
555	CEC		x		GEN-6	Special Inspector(s) - Staff Assignment	Special inspectors submit inspection reports to the CBO and RE.	Fluor	Ongoing							
556	CEC		x		GEN-6	Special Inspector(s) - Staff Assignment	The special inspector shall submit a final signed report to the RE, CBO, and CPM, stating compliance status.	Fluor	after construction completion		30-Jun-14					
557	CEC		x		GEN-6	Special Inspector(s) - Staff Assignment	Submit resumes of special inspector(s).	Fluor	> 15d pt activity			25-Feb-11	approved by CBO 1/25/11			
558	CEC		x		GEN-7	Facility Design Discrepancy Documentation	Submit a copy of the CBO's approval of corrective action taken to resolve a discrepancy in the next monthly compliance report.	Fluor	Monthly		Monthly					
559	CEC		x		GEN-7	Facility Design Discrepancy Documentation	If corrective action is not approved, advise CPM of the reason and the revised corrective action to obtain CBO's approval.	Fluor	< 5d after CBO disapproval							
560	CEC		x		GEN-7	Facility Design Discrepancy Documentation	Document and recommend corrective actions for any discrepancy in design and/or construction engineering work subject to CBO approval. Submit documentation to CBO for review and approval.	Fluor	Ongoing							
561	CEC		x		GEN-8	As-builts, CBO Notification of Complietion and Compliance	Retain one set of approved engineering plans, at the project site. Submit to the CPM a statement with location of stored documents.	Fluor								
562	CEC		x		GEN-8	As-builts, CBO Notification of Complietion and Compliance	Submit to CBO statement of work completed, in conformance with plans and ready for inspection.	Fluor	< 15d after construction completion		15-Jul-14					
563	CEC		x		GEN-8	As-builts, CBO Notification of Complietion and Compliance	Submit a copy of statement of work completed to the CPM in the next monthly compliance report.	Fluor	Monthly							
564	CEC			x	GEN-8	As-builts, CBO Notification of Complietion and Compliance	Provide CBO with a full set of electronic plans.	Fluor	< 90d after construction completion		28-Sep-14					
565	CEC		x		GEN-8	As-builts, CBO Notification of Complietion and Compliance	Notify the CPM after obtaining the CBO's final approval of work completed.	Fluor	< 15d after construction completion		15-Jul-14					
566	CEC	x	x		CIVIL-1	CBO Submittals- Drainage and Grading, Statement of Submittal	Submit to the CBO: (Ph I) 1. Design of the proposed drainage structures and the grading plan; 2. An erosion and sedimentation control plan; 3. Related calculations and specifications; 4. Soils, geotechnical, or foundation investigations reports.	Fluor	> 15d pt grading		22-Dec-10	23-Dec-10	Approved 1/21/11			
566	CEC	x	x		CIVIL-1	CBO Submittals- Drainage and Grading, Statement of Submittal	Submit to the CBO: (PH II) 1. Design of the proposed drainage structures and the grading plan; 2. An erosion and sedimentation control plan; 3. Related calculations and specifications; 4. Soils, geotechnical, or foundation investigations reports.	Fluor	> 15d pt grading		16-Apr-11					
567	CEC	x			CIVIL-1	CBO Submittals- Drainage and Grading, Statement of Submittal	Include CBO approval in following monthly compliance report.	Fluor	< 30d after approval							
568	CEC		x		CIVIL-2	RE Stop Work Authority and Notification	Submit modified plans to the CBO for review and approval based on these new conditions.	Fluor	Ongoing							
569	CEC		x		CIVIL-2	RE Stop Work Authority and Notification	Submit CBO approval of modified plans to CPM.	Fluor	< 24hr of approval							
570	CEC		x		CIVIL-2	RE Stop Work Authority and Notification	RE to stop earthwork if he/she identifies unforeseen adverse soil or geologic conditions. Notify CPM within 24 hrs.	Fluor	< 24hr of discovery							
571	CEC		x		CIVIL-3	CBO Inspection of 2007 CBC Compliance	Include a list of NCRs in the following Monthly Compliance Report.	Fluor	Monthly		Monthly					

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572	CEC		x		CIVIL-3	CBO Inspection of 2007 CBC Compliance	Perform inspections in accordance with the 2007 CBC. Report any discrepancies immediately.	Fluor	Ongoing							
573	CEC		x		CIVIL-3	CBO Inspection of 2007 CBC Compliance	RE to submit a non conformance report (NCR) < 5d of discovery. Submit details of corrective action < 5d of resolution.	Fluor	< 5d of discovery							
574	CEC		x		CIVIL-4	Final Grading Plans - CBO submittal	Submit a copy of the CBO's approval of grading plans to the CPM in the next monthly compliance report.	Fluor	< 30d after approval							
575	CEC		x		CIVIL-4	Final Grading Plans - CBO submittal	After completion of finished grading and erosion and sedimentation	Fluor	< 30d completion of drainage work							
576	CEC		x		STRUC-1	CBO Submittals - Major Structure or Facility design Component, Statement of Submittal	control and drainage work, the project owner shall obtain the CBO's	Fluor	< 30d after approval							
577	CEC		x		STRUC-1	CBO Submittals - Major Structure or Facility design Component, Statement of Submittal	approval of the final grading plans (including final changes) for the	Fluor	> 60d pt start of construction listed GEN-2.		2-Mar-11					
578	CEC		x		STRUC-2	CBO Submittal - Concrete, Welds, Other Structural Activities		Cody	< 5d of NCR							
579	CEC		x		STRUC-2	CBO Submittal - Concrete, Welds, Other Structural Activities		Cody								
580	CEC		x		STRUC-2	CBO Submittal - Concrete, Welds, Other Structural Activities		Cody	< 15d CBO response							
581	CEC		x		STRUC-2	CBO Submittal - Concrete, Welds, Other Structural Activities	Submit a copy of the NCR corrective action to the CBO and the CPM.	Fluor	< 5d of resolution							
582	CEC		x		STRUC-3	CBO Submittal - Design Changes, Revised Drawings, Specs, Calcs	Notify the CBO of any intended filing of design changes, and submit revisions on a schedule suitable to the CBO.	Cody	on a sched suitable to CBO							
584	CEC	x	x		STRUC-3	CBO Submittal - Design Changes, Revised Drawings, Specs, Calcs	Notify the CPM, via the monthly compliance report, when the CBO has approved the revised plans.	Cody	< 30d of approval							
585	CEC		x		STRUC-4	2007 CBC Compliance for Toxic or HAZMAT	Submit to the CBO final design plans for tanks or vessels.	Fluor	> 30d pt installation							
586	CEC	x	x		STRUC-4	2007 CBC Compliance for Toxic or HAZMAT	Include copies of the CBO approvals of plan checks to the CPM in the following monthly compliance report.	Fluor	Monthly							
587	CEC		x		STRUC-4	2007 CBC Compliance for Toxic or HAZMAT	Include a copy of the CBO's inspection approvals to the CPM in the monthly compliance report following completion of any inspection.	Fluor	< 30d following inspection							
588	CEC	x			STRUC-4	2007 CBC Compliance for Toxic or HAZMAT	Design tanks and vessels containing quantities of toxic or hazardous materials exceeding amounts specified in the 2007 CBC to comply with the requirements of that chapter.	Fluor								
589	CEC		x		MECH-1	CBO Submittal -Plan Piping and Plumbing System, Final design specs and calcs	Request CBO inspection of any such major piping or plumbing system.	Fluor								
590	CEC		x		MECH-1	CBO Submittal -Plan Piping and Plumbing System, Final design specs and calcs	The project owner shall transmit to the CPM, in the monthly compliance report following completion of any inspection, a copy of the transmittal letter conveying the CBO's inspection approvals.	Fluor	Monthly		Monthly					
591	CEC		x		MECH-1	CBO Submittal -Plan Piping and Plumbing System, Final design specs and calcs	Include a copy of transmittal letter to CBO in following monthly compliance report.	Fluor	< 30d of submittal							
592	CEC		x		MECH-1	CBO Submittal -Plan Piping and Plumbing System, Final design specs and calcs	Submit to the CBO the final plans and a statement from the mechanical engineer certifying compliance with applicable LORS for major piping or plumbing.	Fluor	> 30d pt installation							
593	CEC		x		MECH-2	CBO and Cal-OSHA Submittal - Pressure Vessel	Submit code certification papers and other documents for all pressure vessels installed in the plant required by applicable LORS.	Fluor/CBO	pt operation		30-Apr-13					
594	CEC		x		MECH-2	CBO and Cal-OSHA Submittal - Pressure Vessel	Submit vendor certification for prefabricated vessels and tanks and Engineers verification that plans conform with ASME Code. Submit copy of transmittal letter to CPM.	Fluor	> 30d pt installation							
595	CEC		x		MECH-2	CBO and Cal-OSHA Submittal - Pressure Vessel	Include CBOs inspection approval in the monthly compliance report following any inspection.	Fluor								
596	CEC		x		MECH-2	CBO and Cal-OSHA Submittal - Pressure Vessel	Request CBO and/or Cal-OSHA inspection of pressure vessel upon completion of installation.	Fluor	upon installation							
597	CEC		x		MECH-2	CBO and Cal-OSHA Submittal - Pressure Vessel	Ensure that all boilers and pressure vessels are designed, fabricated, and installed in accordance with ASME Code.	Fluor	Ongoing							
598	CEC		x		MECH-3	CBO Submittal - HVAC Specs, etc.	Upon completion of any increment of construction, request CBO's inspection and approval of that construction.	Fluor	Upon completion of increment of construction							
599	CEC		x		MECH-3	CBO Submittal - HVAC Specs, etc.	Submit to the CBO the required HVAC and refrigeration plans and a statement from the mechanical engineer certifying compliance with applicable codes. Submit copy of the transmittal letter to the CPM.	Fluor	> 30d pt const of HVAC or refrig system							
600	CEC		x		ELEC-1	CBO Submittal - Electrical Equipment and Systems	Submit to the CBO the final plant design plans and a signed/stamped stamped statement from the responsible electrical engineer attesting compliance with the applicable LORS.	Fluor	> 30d pt start of each increment of construction		1-Apr-11					
601	CEC		x		ELEC-1	CBO Submittal - Electrical Equipment and Systems	Request that the CBO inspect the installation to ensure compliance with the requirements of applicable LORS.	Fluor								
602	CEC		x		ELEC-1	CBO Submittal - Electrical Equipment and Systems	Include in the monthly compliance report: 1. Receipt or delay of major electrical equipment; 2. Testing or energization of major electrical equipment; and 3. A signed statement by the registered electrical engineer certifying that the proposed final design plans and specifications conform to requirements set forth in the Energy Commission decision.	Fluor	Monthly		Monthly					
603	CEC		x		ELEC-1	CBO Submittal - Electrical Equipment and Systems	At least 30d pt the start of each increment of electrical construction, submit to the CBO for design review and approval the listed documents.	Fluor	> 30d pt start of each increment of construction		1-Apr-11					
604	CEC		x	x	ELEC-1	CBO Submittal - Electrical Equipment and Systems	Retain approved final plant design plans and calculations onsite for the life of the project.	Fluor / Operations								
605	CEC	x			PAL-1	Paleontological Resource Specialist - Staff Designation	Submit resume of Paleo Resource Monitors.	Tetra Tech	> 20d pt gd		11-Apr-11				NA to phase I. May need for Phase II	

#	Agency	Pre-con	Const	ops	COC	Title	Description	Responsibility	COC Verification	Internal Due Date	Date Final Due	Date Submitted to Agency	Agency Status	Documentation On Hand Y/N	Internal Comments	Operational On-going Cost
606	CEC	x			PAL-1	Paleontological Resource Specialist - Staff Designation	Submit resume of the Paleo Resource Specialist (PRS).	Tetra Tech	> 60d pt gd		17-Nov-10	2-Sep-10	Approved 10/25/10			
607	CEC	x			PAL-2	PRS Submittal - Stie Drawings Showing Disturbance Areas	Submit maps and drawings showing the footprint of the power plants, construction lay down areas, and all related facilities.	Fluor	> 30d pt gd		17-Dec-10	4-Jan-11	NA			
608	CEC	x	x		PAL-2	PRS Submittal - Stie Drawings Showing Disturbance Areas	Submit letter of any construction phase schedule changes.	Fluor	< 5d of identification							
609	CEC	x	x		PAL-2	PRS Submittal - Stie Drawings Showing Disturbance Areas	If construction proceeds in phases, submit maps and drawings.	Tetra Tech	pt start of each increment of construction		1-May-11	4-Jan-11				
610	CEC		x		PAL-2	PRS Submittal - Stie Drawings Showing Disturbance Areas	PRS or PRM consult weekly with the superintendent or construction field manager to confirm upcoming activity locations.	Tetra Tech	until gd is completed		17-Jan-11					
611	CEC	x	x		PAL-2	PRS Submittal - Stie Drawings Showing Disturbance Areas	Submit schedule of construction phases before work commences on affected power plants.	Fluor	pt start of const on affected power plants		1-May-11	4-Jan-11	NA			
612	CEC	x	x		PAL-2	PRS Submittal - Stie Drawings Showing Disturbance Areas	If the footprint of the project or its linear facilities change, provide maps and drawings reflecting those changes.	Fluor	> 15d pt gd		1-Jan-11	1/4/2011 3/8/11	Approved 3/17/11			
613	CEC		x		PAL-3	Paleontological Resources Monitoring and Mitigation Plan	Copies of the PRMMP shall reside with the PRS, each monitor, the project owner's on-site manager and the CPM.	sub to Tt	Ongoing							
614	CEC	x			PAL-3	Paleontological Resources Monitoring and Mitigation Plan	If PRS determines that paleontological materials could be impacted, PRS to submit a paleontological resources monitoring and mitigation plan (PRMMP).	Tetra Tech	> 30d pt gd		17-Dec-10	3-Dec-10	Approved 12/21/10			
615	CEC		x		PAL-4	Paleontological WEAP	If PRS determines that paleontological materials could be impacted, conduct weekly paleo training for all personnel supervising, directing or conducting ground-disturbing activity.	sub to Tt/Fl	weekly during gd		17-Jan-11					
616	CEC		x		PAL-4	Paleontological WEAP	Submit Paleo training documentation in Monthly Compliance Report.	Tetra Tech	Monthly		Monthly					
617	CEC		x		PAL-4	Paleontological WEAP	Submit resume of any alternative paleo trainer (if applicable).	Tetra Tech	Ongoing							
618	CEC	x			PAL-4	Paleontological WEAP	Include paleo resources in the WEAP.	Tetra Tech	> 30d pt gd		17-Dec-10	14-Dec-10	Approved 1/4/2011			
619	CEC	x			PAL-4	Paleontological WEAP	Submit script and final video of paleo training.	Tetra Tech	> 30d pt gd		17-Dec-10	14-Dec-10	Approved 1/4/2011			
620	CEC		x		PAL-5	PRS Monitoring and Stop Work Authority	Include summary of paleo monitoring activities and finds in the Monthly Compliance Report.	Tetra Tech	Monthly		Monthly					
621	CEC		x		PAL-5	PRS Monitoring and Stop Work Authority	Notify CPM of any significant paleo resource encountered.	Tetra Tech	< 24hrs upon discovery							
622	CEC		x		PAL-5	PRS Monitoring and Stop Work Authority	Notify CPM of any noncompliance related to paleo resources.	Tetra Tech	< 24hrs upon discovery							
623	CEC		x		PAL-5	PRS Monitoring and Stop Work Authority	Implement PRMMP, maintain daily logs. Submit for approval any change in paleo monitoring plan.	Tetra Tech	Ongoing							
624	CEC			x	PAL-6	Paleontological Resource Curation	Retain copies of signed contracts with the designated PRS and other specialists; also the Paleontological Resource Report.	Tetra Tech	3yr after construction completion		1-Jul-14					
625	CEC		x		PAL-6	Paleontological Resource Curation	Submit copy of letter to curating institution - if fossils found.	Tetra Tech	Ongoing							
625	CEC		x		PAL-6	Paleontological Resource Curation	Ensure proper implementation of curation procedures according to the PRMMP Pay fees for curation of paleo materials. Submit letter of materials transmittal to the curation facility to CPM.	Tetra Tech	Ongoing							
626	CEC		x		PAL-7	Paleontological Resuorces Report	Submit a Paleontological Resources Report (PRR).	Tetra Tech	< 90d after gd		28-Sep-14					
627	CEC	x			TSE-1	CBO and CPM submittal - Schedule of design submittals (Master Drawing List, Master Spec List, Major Equip and Structure List)	Submit the schedule, a Master Drawing List, and a Master Specifications List.	Fluor	pt construction		24-Jul-12					
628	CEC	x			TSE-1	CBO and CPM submittal - Schedule of design submittals (Master Drawing List, Master Spec List, Major Equip and Structure List)	Include TSE schedule updates in the Monthly Compliance Report.	Fluor	Monthly							
629	CEC		x		TSE-2	Electrical Engineer - Staff Assignment Civil Engineer - Staff Assignment	Notify the CPM of the CBO's approval of the new engineer within five days of the approval.	Fluor	< 5d of approval							
629	CEC		x		TSE-2	Electrical Engineer - Staff Assignment Civil Engineer - Staff Assignment	If an engineer is reassigned or replaced, submit resume of replacement.	Fluor	< 5d of replacement							
631	CEC		x		TSE-3	Design Discrepancy Submittals	Document and recommend corrective actions for any discrepancy in design and/or construction engineering work that has undergone CBO design review and approval. Submit a copy of the CBO's approval or disapproval of any corrective action taken to resolve a discrepancy to the CPM.	Fluor	< 15d of receipt							
631	CEC		x		TSE-3	Design Discrepancy Submittals	If resolution is disapproved, advise the CPM the reason for the disapproval, along with the revised corrective action required to obtain the CBO's approval.	Fluor	< 5d of notification							
632	CEC		x		TSE-4	CBO Submittal - Power Plant Switchyard, Outlet Line and Termination Design Plans	Submit to the CBO the final design plans, etc for the power plant switchyard, and outlet line and termination, include statement from the electrical engineer verifying compliance with all applicable LORS.	Fluor	pt start of each increment of construction							
633	CEC		x		TSE-4	CBO Submittal - Power Plant Switchyard, Outlet Line and Termination Design Plans	Submit a copy of the transmittal letter of final design plans to CBO in the next monthly compliance report.	Fluor	after sumittal							
634	CEC		x		TSE-4	CBO Submittal - Power Plant Switchyard, Outlet Line and Termination Design Plans	Request that the CBO inspect the installation to ensure compliance with the requirements of applicable LORS.	Fluor								
635	CEC			x	TSE-4	CBO Submittal - Power Plant Switchyard, Outlet Line and Termination Design Plans	Retain all plans, including changes, on site for one year after completion of construction.	Fluor	1yr after construction completion		26-Jun-15					
636	CEC		x		TSE-4	CBO Submittal - Power Plant Switchyard, Outlet Line and Termination Design Plans	Include in the monthly compliance report: a) receipt or delay of major electrical equipment; b) testing or energization of major electrical equipment; and c) the number of electrical drawings approved, submitted for approval, and still to be submitted.	Fluor	Monthly		Monthly					

#	Agency	Pre-con	Const	ops	COC	Title	Description	Responsibility	COC Verification	Internal Due Date	Date Final Due	Date Submitted to Agency	Agency Status	Documentation On Hand Y/N	Internal Comments	Operational On-going Cost
637	CEC		x		TSE-5	CBO Submittal - Tline Design Drawings, Specs and Calca	Submit to the CBO : a) Design drawings for the poles/towers, foundations, anchor bolts, conductors, grounding systems, and major switchyard equipment;	Fluor	pt const of Tline		24-Jul-12					
638	CEC		x		TSE-6	CBO Submittal - TSE-5 Change Requests	Notify the CBO and the CPM of any impending changes that may not conform to requirements of TSE-5 and request approval to implement such changes pt to the construction of transmission facilities.	Fluor	pt const of Tline		24-Jul-12					
639	CEC			x	TSE-7	ISO Notification	Submit telephone notification to the California ISO Outage Coordination Department	Operations	> 1d pt synchronizaiton		31-Dec-12					
640	CEC			x	TSE-7	ISO Notification	Submit to the California ISO a letter stating the proposed date of synchronization.	Operations	> 7d pt synchronizaiton		25-Dec-12					
641	CEC			x	TSE-7	ISO Notification	Submit a report of conversation with the California ISO.	Operations	> 1d pt synchronizaiton		31-Dec-12					
642	CEC			x	TSE-8	Code Compliance	Submit: a) "As built" engineering description(s) and one-line drawings of the electrical portion of the facilities signed and sealed by the registered electrical engineer in responsible charge. A statement attesting to conformance with codes and standards shall be provided concurrently. b) An "as built" engineering description of the mechanical, structural, and civil portion of the transmission facilities signed and sealed by the registered engineer in responsible charge or acceptable alternative verification. Retain "As built" drawings at the power plant and make available, if requested, for CPM audit as set forth in the "Compliance Monitoring Plan". c) A summary of inspections of the completed transmission facilities, and identification of any nonconforming work and corrective actions taken, signed and sealed by the registered engineer in charge.	Operations	< 60d after first synchronization		2-Mar-13					
643	CEC		x	x	TSE-8	Code Compliance	In case of non-conformance of Tline construction or operation, notify CPM and CBO and describe the corrective actions to be taken.	Fluor / Operations	< 10d upon discovery							
643	CEC		x	x	TSE-8	Code Compliance	Inspect transmission line to ensure conformance with applicable codes and standards.	Fluor / Operations	Ongoing							
644	CEC		x	x	COMPLIANCE-1	Unrestricted Access	Provide CEC staff and delegate agencies or consultants unrestricted access to the power plant site.	NextEra								
645	CEC		x	x	COMPLIANCE-2	Compliance Record	The project owner shall maintain project files on-site.	Operations								
646	CEC		x	x	COMPLIANCE-2	Compliance Record	Energy Commission staff and delegate agencies shall be given unrestricted access to the files.	Operations								
647	CEC	x	x	x	COMPLIANCE-3	Compliance Verification Submittals	The project owner is responsible for the delivery and content of all verification submittals to the CPM, whether such condition was satisfied by work performed or the project owner or his agent.	NextEra								
648	CEC	x			COMPLIANCE-4	Pre-con Matrix and tasks	Submit a pre-construction matrix identifying only those conditions that must be fulfilled before the start of construction,	Tetra Tech / Fluor	pt construction		16-Jan-11	5-Nov-10	pending			
649	CEC	x			COMPLIANCE-5	Compliance Matrix	Submit a compliance matrix with each monthly and annual compliance report	ECM	Monthly			7-Dec-10				
650	CEC	x	x		COMPLIANCE-6	Monthly Compliance Report and Key Events List	Submit Monthly Compliance Reports. Include an initial list of dates for each of the events identified on the Key Events List.	ECM	Monthly		Monthly	12/7/2010 1/12/11				
651	CEC			x	COMPLIANCE-7	Annual Compliance Reports	Submit Annual Compliance Reports instead of Monthly Compliance Reports.	Operations	Annually							
652	CEC	x	x	x	COMPLIANCE-8	Confidential Information	Submit confidential information to CEC Executive Director with a request for confidentiality.	Fluor / NextEra	Ongoing							
653	CEC	x			COMPLIANCE-9	Complaints, Notices and Citations	Send a letter to property owners living < 1mile of the project notifying them of a telephone number to contact project representatives with questions, complaints, or concerns.	NextEra	pt construction		16-Jan-11		Approved 1/19/11			
654	CEC			x	COMPLIANCE-10	Planned Facility Closures	Submit a closure plan to the CPM.	Operations	> 12m pt closure							
655	CEC		x		COMPLIANCE-11	Unplanned Permanent Facility Closure	Submit an on-site contingency plan.	Fluor	> 90d of CPM determination							
656	CEC		x		COMPLIANCE-12	Unplanned Permanent Facility Closure	In the event of an unplanned permanent closure, notify agencies take all necessary steps to implement the on-site contingency plan.	Fluor	< 24 hrs of closure							
657	CEC	x	x	x	COMPLIANCE-13	Post Certification Changes to the Decision	Petition the Energy Commission to delete or change a condition of certification, modify the project design or operational requirements and/or transfer ownership of operational control of the facility.	NextEra	Ongoing							

Appendix A
Equipment List and Rating

AQ-SC5

Diesel Engine Emissions Monitoring and Reporting

Genesis Solar Energy Project

Master Equipment List

Equipment Type	Brand /Model	Registration Number	Expiration Date	Serial Number	Engine Year	Horsepower	Tier Rating	Contractor	Rental Company	Mobilization Date	Demobilization Date	Notes
Generator	Kohler 400 Kw	138189	5/31/2013	403010	NA	99	III	Sukut	RSC	10/1/2011		
Generator	MQ Power 400 Kw	143594	5/31/2014	2263	NA	NA	III	Sukut	RSC	10/11/2011	1/30/2012	
Motor Grader	CAT 140H	LJ6V63	NA	NA	NA	NA	III	Sukut	Miller Blades	10/17/2011	10/24/2011	
Scraper	CAT 613	FW6W46	NA	NA	NA	NA	III	Sukut	Miller Blades	10/17/2011	11/14/2011	
Backhoe	CAT 420E	GH8F30	NA	NA	NA	NA	III	Sukut	United Rentals	10/12/2011		
Roller	BOMAG 177D	HV4A78	NA	NA	NA	NA	III	Sukut	United Rentals	10/20/2011	10/21/2011	
Motor Grader	CAT 16G	VX6L67	NA	NA	NA	NA	III	Sukut	Miller Blades	10/25/2011		
Scraper	CAT 657	WN3G47/TP5D95	NA	57-40	NA	440	III	Sukut	Sukut	10/25/2011		
Scraper	CAT 657	VR9W59/DU7M84	NA	57-40	NA	440	III	Sukut	Sukut	10/28/2011		
Scraper	CAT 657	XG9N34/NY8599	NA	57-40	NA	440	III	Sukut	Sukut	11/3/2011		
Scraper	CAT 657	NX6E67/XF4H83	NA	57-56	NA	440	III	Sukut	Sukut	11/3/2011	4/10/2012	
Skiploader	CAT 414E	KF6F93	NA	NA	2007	78	III	Sukut	Sukut	11/3/2011		
Water Pull	CAT	EINUN7B76	NA	NA	NA	NA	III	Sukut	Sukut	11/4/2011		
Scraper	CAT 657	LK5B78/PP9G75	NA	57-41	NA	440	III	Sukut	Ren Trac	11/9/2011		
Scraper	CAT 657	GW6L96/PG6J43	NA	1265	NA	440	III	Sukut	Rent Trac	1/9/2012		
Scraper	CAT 657	TP8386/4F5538	NA	1257	NA	440	III	Sukut	Rent Trac	1/9/2012		
Scraper	CAT 657	GT4449/T4GN36	NA	1229	NA	440	III	Sukut	Rent Trac	1/10/2012		
Scraper	CAT 657	PD6T47/TM7F56	NA	1248	NA	440	III	Sukut	Rent Trac	1/10/2012		
Scraper	CAT 657	XC3E93/VX8L63	NA	1355	NA	440	III	Sukut	Rent Trac	1/11/2012		
Generator	70 Kw	140035	NA	701672	NA	NA	III	Sukut	RSC	11/15/2011	1/13/2012	
Forklift	Skytrack JLG	NL5346	NA	NA	NA	NA	NA	Sukut	RSC	11/10/2011	3/26/2012	
Backhoe	JD 310	XK3X55	NA	NA	NA	NA	III	Sukut	RSC	11/30/2011	1/13/2012	
Skiploader	JD 210	NA	NA	NA	NA	NA	III	Sukut	RSC	11/12/2011	3/5/2012	
Water Wagon	CAT 651	FRX8T76/R43TG49	NA	37-05	NA	NA	III	Sukut	Sukut	1/3/2012		
Generator	500 Kw	139957	8/31/2013	55-500	NA	NA	III	Sukut	RSC	1/3/2012		
Scraper	CAT 623	SF9V87	NA	1	NA	NA	III	Sukut	Miller Blades	1/16/2012		

Genesis Solar Energy Project

Master Equipment List

Equipment Type	Brand /Model	Registration Number	Expiration Date	Serial Number	Engine Year	Horsepower	Tier Rating	Contractor	Rental Company	Mobilization Date	Demobilization Date	Notes
Drive Engine	CAT C7 Acert	148483	8/31/2013	NA	NA	NA	III	SouthWest Drilling	SouthWest Drilling	(Recorded 9/20/2011)	10/1/2011	Removed from site.
Drive Engine	CAT C7 Acert	148484	8/31/2013	NA	NA	NA	III	SouthWest Drilling	SouthWest Drilling	(Recorded 9/20/2011)	10/1/2011	Removed from site.
Air Compressor	Atlas Copco	152484	8/31/2013	JPEC-0005	NA	NA	III	SouthWest Drilling	CAT/Johnson	(Recorded 9/20/2011)	10/1/2011	Removed from site.
Engine	DDC Diesel	130415	3/31/2014	NA	NA	NA	III	SouthWest Drilling	ARB Portable Equipment	(Recorded 9/20/2011)	10/1/2011	Removed from site.
Sweeper	Broce Broom	VH3U58	NA	807664	2010	84	III	Sukut	RSC	(Recorded 9/20/2011)		
Dozer	CAT 834B	CS8P98	NA	34-07	2007	475	III	Sukut	Sukut	9/19/2011	3/22/2012	
Dozer	CAT 824C	YA9K67	NA	24-12	2007	354	III	Sukut	Sukut	9/29/2011		
Motor Grader	CAT 16G	SC5M77	NA	2801-16	2009	297	III	Sukut	Sukut	10/6/2011		
Scraper	CAT 657	PC8Y97/HB3G78	NA	57-21	2007	600	III	Sukut	Sukut	(Recorded 9/20/2011)	4/9/2012	Removed from site
Backhoe	CAT 692	KK7C43	NA	430-D	NA	NA	III	SouthWest Drilling	SouthWest Drilling	(Recorded 9/20/2011)	10/1/2011	Removed from site.
Motor Grader	CAT 140H	UN7F66	NA	4068	NA	NA	III	Sukut	Miller Blades	(Recorded 9/20/2011)	9/23/2011	Removed from site.
Scraper	CAT 657	TH4G47/UK3K99	NA	57-22	2010	440	III	Sukut	Sukut	9/28/2011		
Scraper	CAT 657	XK3J33/GP8T95	NA	57-60	2007	440	III	Sukut	Sukut	9/28/2011		
Scraper	CAT 657	DF9C83/DG6M34	NA	57-66	2006	600	III	Sukut	Sukut	9/28/2011		
Scraper	CAT 657	VT6M63/FJ6T95	NA	57-63	2006	440	III	Sukut	Sukut	9/29/2011		
Scraper	CAT 657	RX8U86/NP6Y75	NA	57-33	2007	440	III	Sukut	Sukut	9/29/2011	4/10/2012	
Scraper	CAT 657	AF3R99/AN5G44	NA	57-28	2010	440	III	Sukut	Sukut	9/30/2011		
Scraper	CAT 657	CW5Y75/GJ9T48	NA	57-29	2010	440	III	Sukut	Sukut	10/4/2011		
Scraper	CAT 657	KG5B54/SG3N43	NA	57-74	2010	440	III	Sukut	Sukut	10/4/2011		
Water Wagon	CAT 651	CF4M43	NA	51-83	2006	540	III	Sukut	Sukut	9/29/2011		
Skiploader	John Deere	NA	NA	NA	NA	NA	III	Sukut	Sukut	9/19/2011	9/28/2011	Used less than 10 days onsite.
Skiploader	CAT 414E	ME7J57	NA	NA	NA	NA	III	Sukut	United Rentals	10/12/2011	11/3/2011	
Scraper	CAT 623	XE5H67	NA	NA	1985	350	III	Sukut	Sukut	9/28/2011		
Motor Grader 16G	CAT 16G	HK8W79	NA	NA	2009	298	III	Sukut	Miller Blades	9/19/2011		
Dozer	CAT D9T	EV5K99	NA	90-34	2005	410	III	Sukut	Sukut	9/28/2011	3/8/2012	
Skiploader	CAT 414E	CL7M35	NA	NA	2007	78	III	Sukut	Sukut	9/27/2011	10/7/2011	Removed from site
Generator	Atlas Copco QAS-30	645888	NA	645888	NA	NA	NA	Sukut	RSC	(Recorded 9/20/2011)	10/1/2011	Removed from site
Generator	Airman -SDG60S	1473A20166	NA	689	NA	NA	NA	SouthWest Drilling	SouthWest Drilling	(Recorded 9/20/2011)	10/1/2011	Removed from site
Generator	Kohler 400 Kw	138194	5/31/2013	403015	NA	99	III	Sukut	Kohler Rental	(Recorded 9/20/2011)		WI Lic. Plate 555501
Generator	MQ Power	147014	3/31/2012	1101821	NA	NA	III	SouthWest Drilling	United Rentals	(Recorded 9/20/2011)	10/1/2011	Removed from site
Generator	NA	148485	8/31/2013	NA	NA	NA	III	SouthWest Drilling	SouthWest Drilling	(Recorded 9/20/2011)	10/1/2011	removed from site

Genesis Solar Energy Project

Largo Concrete Inc. Over 50hp Diesel Equipment List

4/10/2012

Equipment Type	Brand/Model	CA ARB Registration Number	Expiration Date	Vehicle Serial Number	Engine Year	Horsepower	Tier Rating	Contractor	Rental Company	Mobilization Date	Demob. Date	Notes
10K Reach Forklift	Skytrak10054	MK3P69	n/a	160032431	2007	75-130kw	3	Largo Concrete	RSC	11/21/11		
8K Reach Forklift	Gehl RS8	YE5K34	n/a	RS842JZ0616921	2007	115-86	N	Largo Concrete	RSC	12/5/11		
8K Reach Forklift	Skytrak 8042	TK5B38	n/a	160029782	2007	110-82	3	Largo Concrete	RSC	12/15/11		
8K Reach Forklift	Skytrak 8042	SG3T73	n/a	160042269	2009	110-82	3	Largo Concrete	RSC	12/15/11		
Skiploader	JD 210LJ	TH3U69	n/a	1T0210LJEA089404	2010	56-75	3	Largo Concrete	RSC	12/27/11		
Skiploader	JD 210L J	RR4Y66	n/a	1T0210LJEA0890262	2010	56-75	3	Largo Concrete	RSC	12/5/11		
Skiploader	JD 210LJ	FH4J85	n/a	1T0210LJPB0890381	2010	74KW	3	Largo Concrete	RSC	2/16/12		
Skiploader	JD210 LJ	UA7575	n/a	1T0210LJKB0890382	2010	74KW	3	Largo Concrete	RSC	3/26/12		
3 Yard Loader	Deer 544-K	VL6L84	n/a	1DW544KZTA0628594	2010	114 KW	3	Largo Concrete	RSC	1/10/12		
Roller-Ingersol	SD16122	EL3B97	n/a	186167	2011			Largo Concrete	RSC	2/16/12		
Drill Rig - DR16	Soil Mec R312	BB9D65	n/a	1454	1998	174		Anderson	n/a	12/5/11		
Drill Rig - DR32	Soil Mec R312	NS6S47	n/a	2624	2006	200		Anderson	n/a	12/21/11		
Drill Rig - DR8	Watson 2000	HU3M54	n/a	200077	1985	175		Anderson	n/a	1/23/12		
Drill Rig SR30	Soil Mec R312	JH7G66		4066	2011	220	3	Anderson	n/a	3/26/12		
ON ROAD VEHICLES - DO NOT REQUIRE OFF ROAD REGISTRATIONS												
5 Yd Dump Truck	Ford F750	n/a		518250	2006	215		Largo Concrete	RSC	12/5/11		
5 Yd Dump Truck	Ford F750	n/a		3FRXF75EX7V509379		215		Largo Concrete	RSC	2/16/12		
5 Yd Dump Truck	Ford F650	n/a		3FRNF65E36V387951	2006	215	3	Largo Concrete	RSC	12/27/11		
2000 gal water truck	Ford 750	n/a		FRXF75E66V384394	2006	215		Largo Concrete	RSC	12/5/11		
2000 gal water truck	Ford 750	629314		FRXF7FAA1BV587134	2011	215		Largo Concrete	RSC	12/5/11		
2000 gal water truck	Ford 750			3FRXF75E97V509390	2011	215		Largo Concrete	RSC	3/12/12		
Service Truck-SV127	Ford F550	n/a		1FDAF56P27EA37256	2000	3235		Anderson	n/a	12/5/11		
Service Truck - SV 081	Ford F550	n/a		1FDAF56F2YEA36939	2004	215		Anderson	n/a	12/21/11		
Service Truck - SV 111	Ford F550	n/a		1FDAF56P34EH22051	2007	235		Anderson	n/a	12/5/11		
Service Truck - SV 111	Ford F550	n/a		1FDAF56F2XE3D88529	1999	215		Anderson	n/a	2/13/12		

Appendix B

Biological Reports

BIO-8: Impact Avoidance and Minimization Measures

GENESIS SOLAR ENERGY PROJECT
BIOLOGICAL RESOURCES
MONTHLY COMPLIANCE REPORT
FOR MARCH 2012

Prepared for:

Genesis Solar, LLC
1111 Broadway, Fifth Floor
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Prepared by:

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March 2012

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INTRODUCTION

On behalf of Genesis Solar, LLC., AECOM biologists are performing biological resource construction monitoring for the Genesis Solar Energy Project (Project or GSEP). The GSEP construction activities are currently focused on the Plant Site (approximately 1,727 acres) and the Access Road. The transmission line and natural gas pipeline are not yet under construction. Monitoring of these facility areas are being conducted in compliance with the following agency approvals and permits issued for the Project:

- California Energy Commission's (CEC's) Final Conditions of Certification (COCs) (Genesis Solar Energy Project Final Decision, CEC-800-2010-011-CMF, 09-AFC-8 September 2010)
- Blythe Solar Power Project Biological Resources Mitigation Implementation and Monitoring Plan (BRMIMP, Docket Number 09-AFC-8, January 2011) and appended Compliance Plans:
    - Weed Management Plan (Appendix C.1 of BRMIMP)
    - Revegetation Plan (Appendix C.2 of BRMIMP)
    - Couch's Spadefoot Toad Protection and Mitigation Plan (Appendix C.3 of BRMIMP)
    - Desert Tortoise Translocation Plan (Appendix C.4 of BRMIMP)
    - Burrowing Owl Relocation and Mitigation Plan (Appendix C.5 of BRMIMP)
    - Golden Eagle Monitoring and Management Plan (Appendix C.7 of BRMIMP)
    - Common Raven Monitoring, Management, and Control Plan (Appendix C.8 of BRMIMP)
- U.S. Fish and Wildlife Service (USFWS) Section 7 Biological Opinion (BO) on the Genesis Solar Energy Project No. FWS-ERIV-08B0060-10F0878 (November 2, 2010)
- Bureau of Land Management (BLM) Right of Way (ROW) Grant, Serial Number CACA-048880 (November 30, 2010)
- Record of Decision (ROD for the Genesis Solar Energy Project and Amendment to the California Desert Conservation Area Plan, October 2010

This report documents compliance monitoring activities conducted in March 2012. The following biological surveys and monitoring took place in March 2012:

- Nesting bird surveys for Unit 1 in areas that had been dormant for more than 3 weeks;

- Weekly reconnaissance for ravens, focusing on potential subsidies; and,
- Biological monitoring of the Plant Site and Access Road disturbance areas.

Wildlife species observed and photos taken during these activities are provided in Attachment 2 and Attachment 3, respectively.

PROJECT LOCATION AND DESCRIPTION

The Project site is located in the Riverside County, California between the community of Desert Center and the city of Blythe. The Project is located on land owned by the federal government and managed by the BLM, pursuant to an ROW grant issued to Genesis Solar from BLM and the power plant certification issued by CEC. The total Project Disturbance Area (at build out) will be approximately 1,819.5 acres.

The Project is a concentrated solar electric generating facility that will use parabolic trough technology to generate electricity. The Project consists of two independent concentrated solar electric generating facilities with a nominal net electrical output of 125 megawatts (MW) each, (Units 1 and 2), for a total net electrical output of 250 MW. The Plant Site includes the solar arrays, power blocks, power generating equipment, support facilities, and evaporation ponds. The Linear Facilities include a transmission line, distribution line, natural gas pipeline, and a main access road.

MONITORED MITIGATION MEASURES AND PERMIT CONDITIONS

Biological mitigation measures for the GSEP site were developed through consultation with CEC, the California Department of Fish and Game (CDFG), USFWS, and BLM. Biological mitigation measures and permit conditions were implemented under the guidance and direction of the Project Designated Biologist (DB), with assistance from approved Biological Monitors (BMs), as required.

During March 2012, Project activities were in compliance with the COCs that apply to the construction activities.

SUMMARY OF ACTIVITIES

Weekly activities for the month consisted of:

- General Construction Monitoring
  - Monitored grading in Plant Site – Grading occurred in both Units 1 and 2. The majority of the grading occurred in Unit 2, with most of the activity occurring in the northern half (Unit 2, Blocks 1,2,3,6,7) and some channel work. Unit 1 grading occurred in the eastern portions of Blocks 2, 3 and 4. The areas which had not been previously graded were inspected for fauna prior to construction. No desert tortoise, American badger, desert kit fox, western burrowing owls, Couch's spadefoot toad, or nesting birds were found during preconstruction surveys or monitoring.
  - Monitored the Access Road for roadkill and vehicle compliance. Roadkill was removed from the road and disposed of in accordance with agency approved methods (i.e., burial). Wildlife incident reports were filed upon detection and collection of special status species road kill per COC BIO-8. Three Mojave Fringe-toed lizards fatalities were found on the Access Road March 23, 2012. Construction Wildlife Incident Forms were completed and agencies notified. Vehicles observed appeared to obey speed limits. Vehicle speed and speed limits were discussed with contract personnel to reinforce compliance. Night time and day time hours were established. On March 22, 6:30 a.m. to 7:00 pm was established as the time period for the daytime speed limit.
  - Dust suppression activities and water activities that had potential to result in ponding water were monitored. The DB and Biological Monitor patrolled areas daily to verify that ponding water was minimized and that water was spread and mixed with soil to prevent raven and other predator attraction.
  - In accordance with Conditions, contaminated soils from spills and drips were reported to DB and cleaned up. The contaminated soil is removed from site by Evergreen Environmental Services to be disposed of at a licensed facility.

- Exclusion Fence Monitoring
  - The temporary tortoise exclusionary fence was inspected on a weekly basis. The fence is intact and no breaches were found. No maintenance or repair was necessary.

- The tortoise grate at the Plant Site entry from the access road was also inspected on a daily basis and maintenance (e.g., removal of soil build-up) was performed if necessary.

- Raven Monitoring
  - Monitors performed daily recording during general construction monitoring for incidental raven observations and associated activity. Ravens were typically observed flying over the common area and seeking food in recently scraped areas.
  - Monthly point count surveys were performed in accordance with the conditions. One raven was observed during the monthly raven point count surveys. Monthly and biweekly raven counts will continue to be performed. No raven nesting sites have been observed. Potential subsidies (i.e., possible nesting, ponded water, roadkill) was monitored per the Raven Plan.

- Monitoring of ESAs
  - All construction activities occurred within the Plant Site. All biological ESAs are outside of the tortoise exclusionary fencing. ESAs along access road were noted to be marked and avoided.

- Special Status Species Surveys and Monitoring
  - Kit fox monitoring with cameras and telemetry was conducted on behalf of agencies (not reported further in this MCR as it is outside the Project Area)
  - Nesting bird surveys were performed for areas of the Plant Site that had not been active for more than 3 weeks and construction activity was planned to start. More details on survey methods and results are provided in the section below.

SURVEY METHODS AND RESULTS

Pre-construction surveys have been completed and the GSEP site is in the construction phase. Surveys conducted during construction per the COCs are summarized below and include nesting

birds (as-needed), raven monitoring, and golden eagle surveys. Survey methods and results for activities conducted during March 2012 are summarized below.

Nesting Bird Surveys.

Surveys were conducted in Unit 1, Blocks 2, 3, 4 and a southern strip below Unit 1, Blocks 4 and 8 due to a greater than 3-week construction inactivity period. Per COC BIO-15, nesting bird surveys were conducted in the areas within 7 days prior to reinitiating construction activities. Surveys consisted of walking transects within the survey area and a 200-foot buffer per concurrence by the resource agencies in an email to Thomas Dardin (former DB) (included in Attachment 6). Transects were completed using a 20-30 meter spacing. Spacing was determined to allow for complete visual coverage of the survey area between biologists. Visual survey efforts included straying off the transect line at times to provide additional coverage of available nesting habitat. Due to not finding birds during some surveys, areas with potential nesting habitat were re-surveyed at different times of day.

The survey area consisted of generally poor quality nesting habitat comprised of previously mowed vegetation and previously graded areas.

One previously located Loggerhead Shrike nest was determined to be active on March 14, 2012. No other nesting birds or nests were found. A summary of nesting bird surveys and results is provided in Table 1 below. Nesting bird survey forms are included in Attachment 5.

Raven Surveys.

Raven observations were recorded daily during construction activities and were recorded on the Daily Monitoring Log. Monitoring focused on potential subsidies such as waste disposal areas and staged equipment. There were approximately 256 incidental raven sightings during 23 monitoring days. The average number of incidental sightings is approximately 11 and does not take into account double counting by observers. One raven was observed during the monthly raven count survey. Eleven ravens were observed during the previous monthly raven count survey.

Formal raven monitoring in accordance with the COCs consisted of monthly and bi-weekly surveys per the Raven Plan. There are seven raven monitoring point locations (Attachment 1). Raven recorded are within an 800m radius.

Table 1
Genesis Solar Energy Project Nesting Bird Survey Summary

Date	Area		Findings	
	Unit	Block[1]	Nesting Activity	Species Observed
13-Mar	Unit 1	2 and 4	None[2]	none
14-Mar	Unit 1	2 and 4	One Loggerhead Shrike nest was confirmed to be active.	Loggerhead Shrike, Say's Phoebe, Prairie Falcon
15-Mar	Unit 1	2 and 4	None[1]	Unknown Sparrow
16-Mar	Unit 1	Exclusion Zone west of 1 and 2.	None[1]	House Finch, Common Raven, Red-tailed Hawk
19-Mar	Unit 1	2,4, and 8	None[1]	Horned Lark
22-Mar	Unit 1	2 and 4	None[1]	Horned Lark
23-Mar	Unit 1	Buffer outside of 4.	None[1]	Horned Lark
26-Mar	Unit 1	Road strip in 2 and 3, southwest section of 8 and adjacent south buffer area	None[1]	Horned Lark, Common Raven, Cliff Swallow
27-Mar	Unit 1	Buffer area south of 8	None[1]	Horned Lark, Common Raven, Cliff Swallow
30-Mar	Unit 1	4	None[1]	Western Meadowlark, Horned Lark, Common Raven, Yellow-rumped Warbler, Cliff Swallow, Northern Harrier, Sage Thrasher

1 Surveys did not cover the entire block identified unless otherwise noted.
2 No nests found or nesting behavior observed.

WEED AND ESA MONITORING

Scattered individual Saharan mustard (*Brassica tournefortii*) plants were documented within the Plant Site and access road. Weed densities are well below ambient levels on surrounding lands. Spot treatment within permanent and temporary disturbance areas was recommended in accordance with the Weed Management Plan. A Pesticide Use Proposal was prepared for submittal to the BLM for authorization to apply herbicide to these areas. However, additional NEPA analysis was determined by the BLM to be necessary for application of herbicides at the project site. The NEPA analysis for the BLM PUP is in progress. A treatment plan prepared in

accordance with the Weed Management Plan will be ready for implementation in fall 2012 if weeds are present in disturbance areas at that time.

It is understood that ESA monitoring by the Designated Botanist (Alice Karl) occurred weekly during construction activities. Based on DB and BM observations during daily access to the site, no encroachment from construction vehicles or personnel occurred.

WORKER ENVIRONMENTAL AWARENESS PROGRAM (WEAP)

As required by COC BIO-6, all new employees/field staff reporting to the site must receive the Worker Environmental Awareness Program (WEAP) training prior to start of work. The GSEP-specific WEAP training includes a brochure, training video, species cards, and hard hat stickers. The DB has coordinated with the BLM and CEC to provide a modified WEAP training for one-time delivery drivers to provide necessary information for site access and avoidance/minimization of impacts.

All personnel reporting to the field in March received WEAP training.

GENERAL DAILY NOTES AND OBSERVATIONS

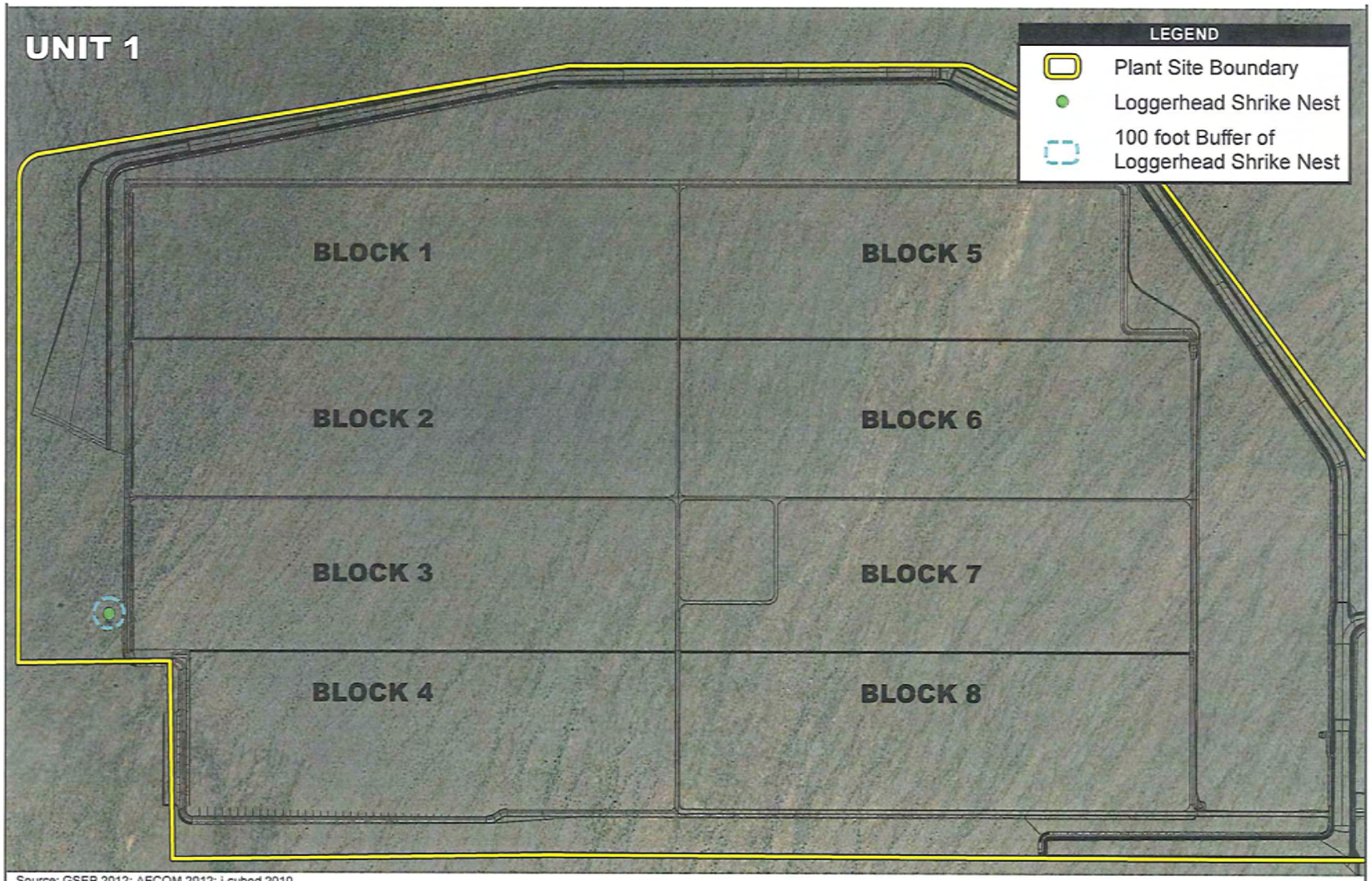
Daily notes detailing compliance monitoring activities are provided in the forms attached (Attachments 4 and 5).

REFERENCES

Martin and Guepel. 1993. Nest Monitoring Plots: Methods for Locating Nests and Monitoring Success. Journal of Field Ornithology.

ATTACHMENT 1

FIGURES



Source: GSEP 2012; AECOM 2012; i-cubed 2010

1,000 0 1,000 Feet

Scale: 1:12,000; 1 inch = 1,000 feet

Genesis Solar Energy Project

GSEP Unit 1
Loggerhead Shrike Nest and Buffer

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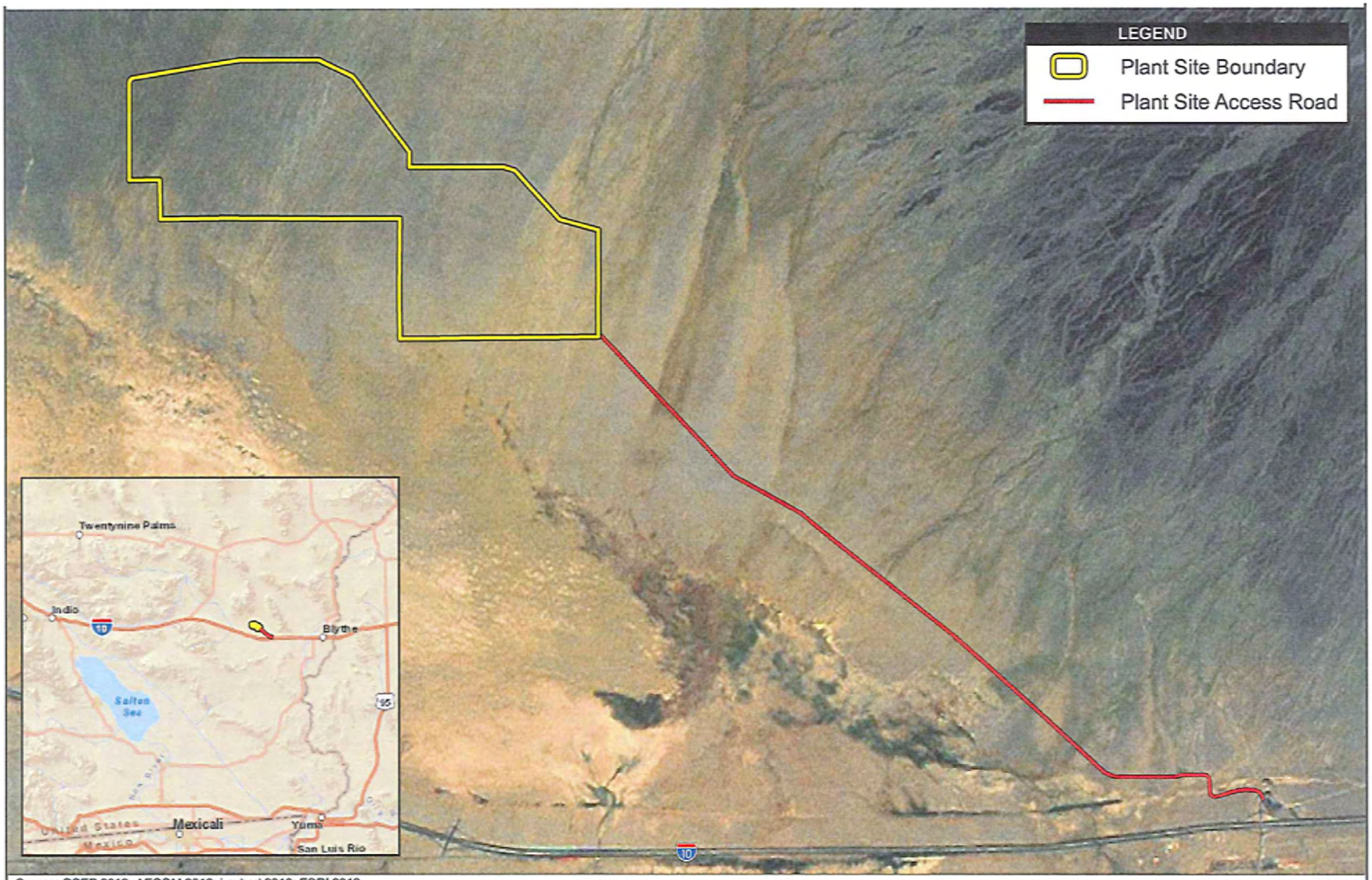


Source: GSEP 2012; AECOM 2012; i-cubed 2010; ESRI 2012

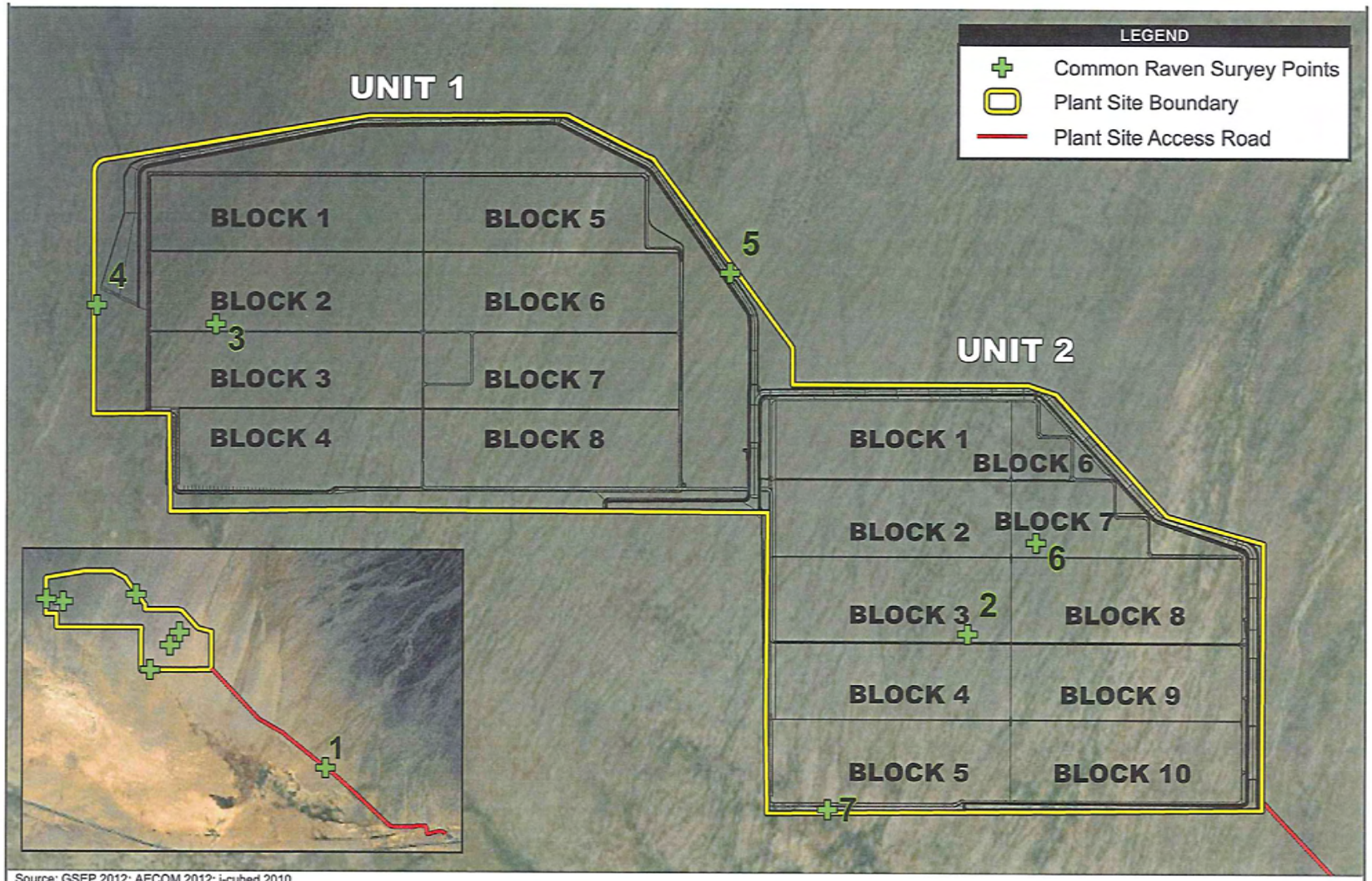
2,000 0 2,000 Feet

Scale: 1:24,000; 1 inch = 2,000 feet

Genesis Solar Energy Project

Genesis Solar Energy Project
Vicinity Map

Path: P:\2011\60220713\06GIS\6.3_Layout\Bio\MCR\2012\3 - March\Project Site 20120412.mxd, 4/12/2012, irelandm



Source: GSEP 2012; AECOM 2012; i-cubed 2010

2,000 0 2,000 Feet

Scale: 1:24,000; 1 inch = 2,000 feet

Genesis Solar Energy Project

Common Raven Survey Points

Path: P:\2011\60220713\06GIS\6.3_Layout\Bio\MCR\2012\3 - March\CORA Survey Points 20120412.mxd, 4/12/2012, irelandm

ATTACHMENT 2

SPECIES OBSERVED DURING MARCH SURVEYS AND MONITORING

Reptiles:

Whip Tail Lizard
Desert Horned Lizard
Zebra Tailed Lizard

Desert Iguana
Desert Banded Gecko
Mojave Fringe-Toed Lizard
Western Shoveled Nose Snake
Sidewinder Rattlesnake
Side-blotched lizard

Birds:

Horned Lark
Say's Phoebe
Orange Crowned Warbler

Yellow-Rumped Warbler
Loggerhead Shrike
Killdeer
American Kestrel
Osprey
Red-tailed Hawk
Raven
Barn Swallows
Brewer's Sparrow
Northern Harrier
Turkey Vulture
Merlin

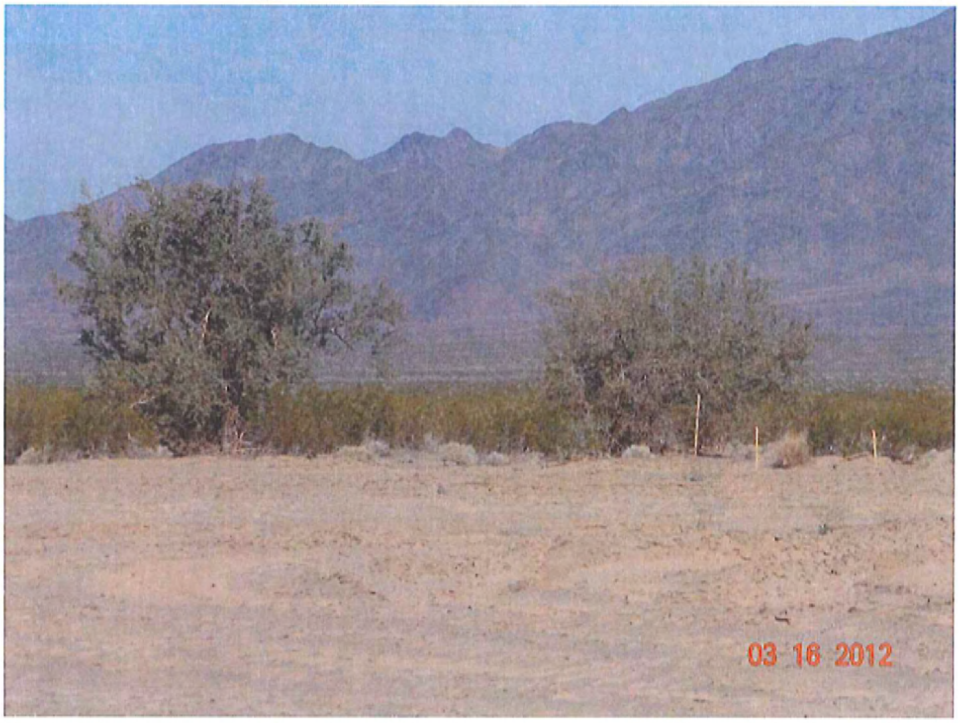
Animals:

Kit Fox
Kangaroo Rat
Round Tailed Ground Squirrel

ATTACHMENT 3

PHOTOS

March 15, 2012 - Loggerhead Shrike in Conservation Set Aside Area (CSAA).

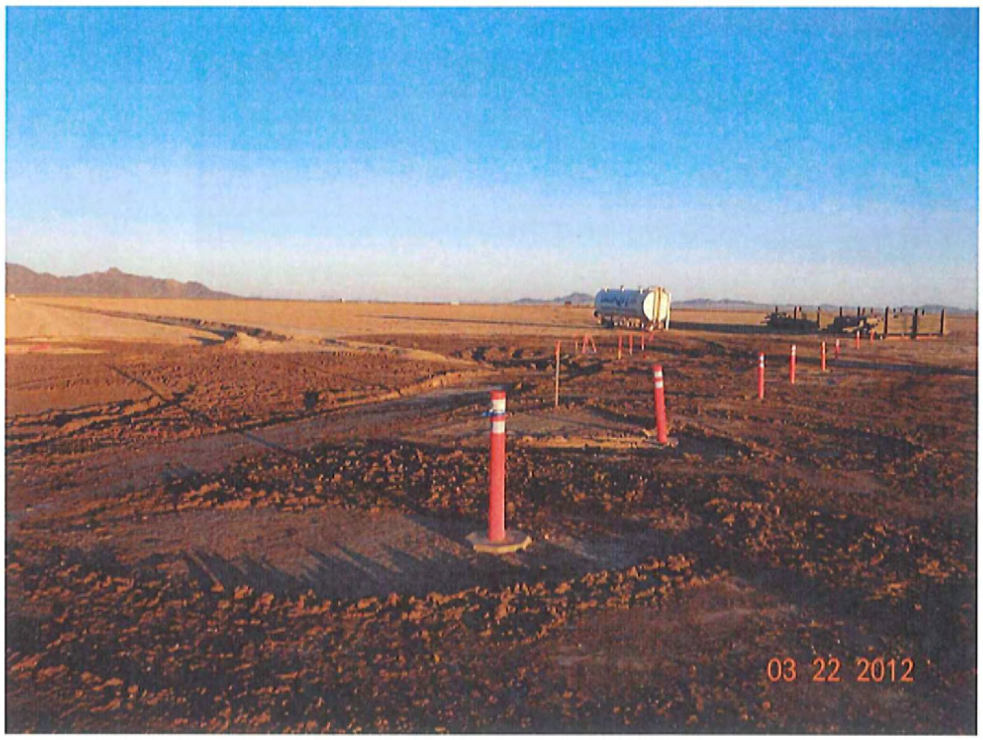


March 16, 2012 – Ironwood trees in CSAA. Northern tree has shrike nest.

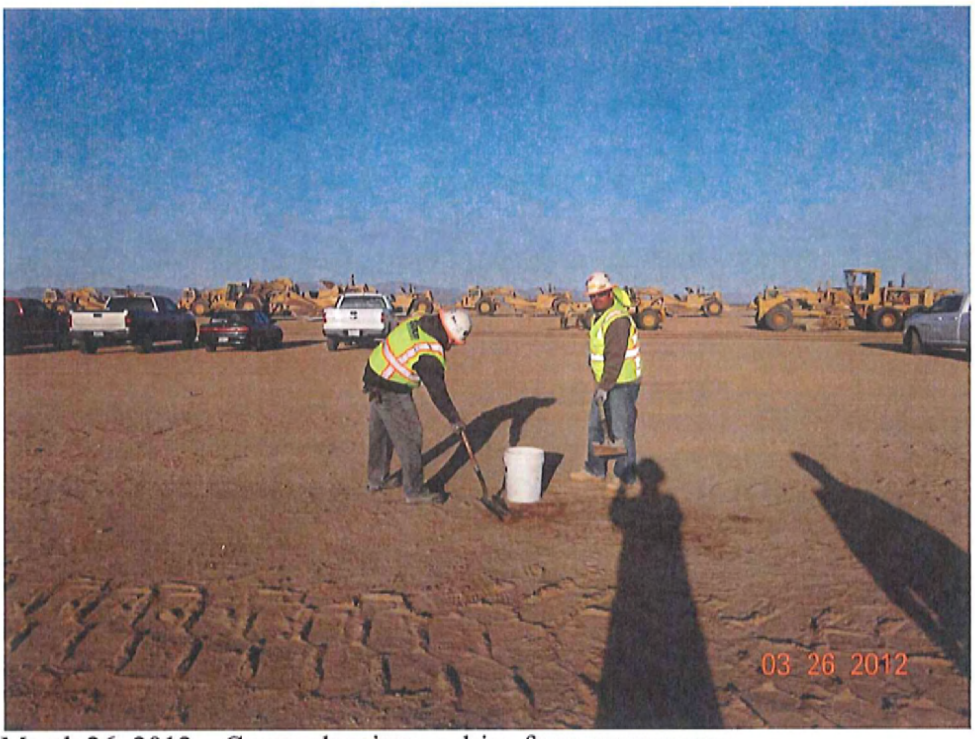
March 15, 2012 – Re-emergent vegetation south of Unit 1, Block 4 looking south toward undisturbed outside of the Plant Site Creosote scrub.

Scraper pattern dust abatement without ponding.

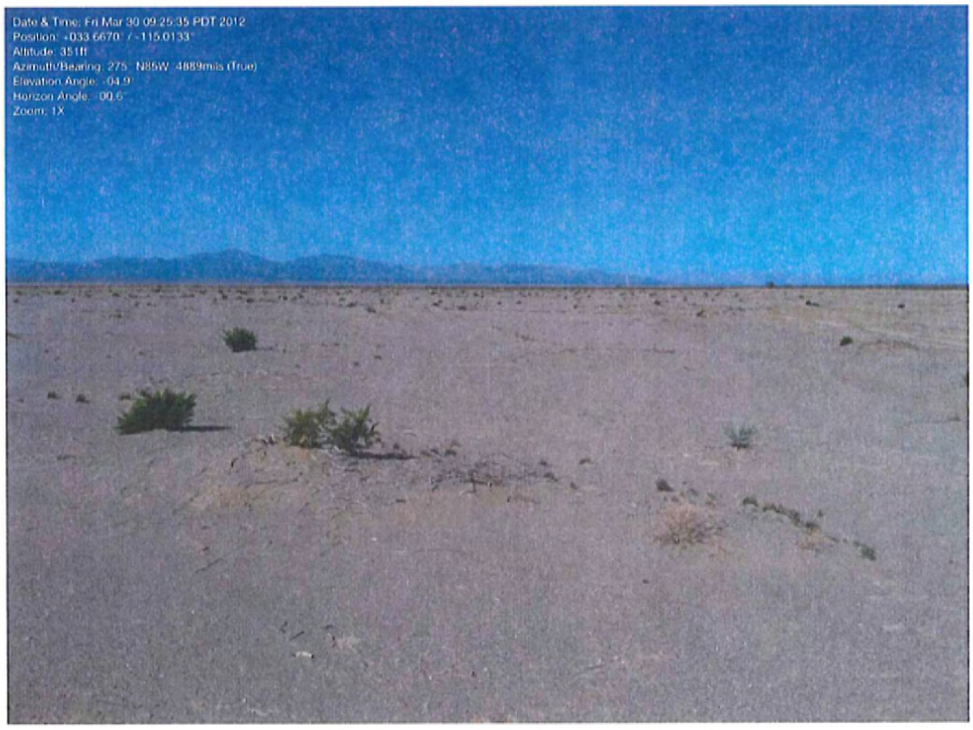
March 22, 2012 – Standing water from bleeding pipe.



March 22, 2012 – Standing water minimized.



March 26, 2012 – Crews cleaning up drips from scraper area.



March 30, 2012 - Unit 1, Block 4 re-emergent vegetation surveyed for nesting birds.

ATTACHMENT 4

DAILY BIOLOGICAL MONITORING LOGS

Genesis Solar Energy Project

Biological Monitor (BM) Daily Report — Date March/01/2012

Monitor: Rob Conohan
Weather Conditions: _Sunny, light breeze to high winds
High Temp.: 76F Low Temp.: low 45

Start Time: 6:30am___ Stop Time: 3:30 pm_
Attachments:_____
Photographs: See Below

Sites Monitored

Circle One: **Plant Site** **Access Road** **Gas Line** **Transmission Line** **Other (explain)**

Activity Log:

SUKUT safety meeting. Monitored Cultural resources test scrapping at Unit 1 Block 2. Conducted Nesing bird survey in Blocks 2 and 4. No nesting activity observed. Monitored work at CG3. Looked for nesting bird activity in suitable vegetation west of blocks 2 and 3. Brewers Sparrow (migrants) and 3 Horned Larks which were foraging on the ground were observed but no courtship or breeding season behavior was witnessed. A cultural Resource [redacted] was found [redacted]) and notified archeologists. Continued Monitoring test scrape activities. Blades did not break ground after lunch time due to the changing possible site locations. Work stopped at 3:30 for the day due to the high winds.

Monitor Checklist

General	Yes	No	N/A	Comments Attach Supplemental Report if needed
Workspace limits verified and properly marked?	x			
All activities within approved workspace limits?	x			
Only approved access roads utilized for ingress and egress?			x	
Access road signs in place?			x	
Trash and debris contained and disposed of in proper manner?		x		Trash along fence
Topsoil segregated properly?			x	
Topsoil segregation barriers maintained?			x	
All crew on site displaying hard-hat decals from WEAP training?	x			
Speed limit observed by all project personnel?	x			
Biological Issues	**Yes**	**No**	**N/A**	**Comments** Attach Supplemental Report if needed
Work area cleared by BM prior to construction activity beginning?	x			
Any desert tortoise or other T&E species encountered? If so, note Species in comments and attach wildlife incident data form.		x		
Tortoise exclusionary fence and/or ramps intact?	x			
Any nesting birds observed? Note species (if known) and location.		x		
Common Ravens Present? If yes, note number and activity.	x		3	foraging in Unit 1 work Area
All ESAs and other bio-related exclusion areas marked and avoided?	x			

Additional Notes:

Genesis Solar Energy Project

Biological Monitor (BM) Daily Report Date 3/5/12

Monitor: Tsegaye Mengistu
Weather Conditions: cloudy AM sunny/clear PM
High Temp. 79 Low Temp. 49

Start Time: 0515 Stop Time: 1630
Attachments: no
Photographs: no

4

Circle One: **Plant Site** **Access Road** **Gas Line** **Transmission Line** **Other (explain)**

Activity Log:

Arrived at Genesis Solar Energy project site at 0600hr, joined Sukut JHA pre-construction meeting at 0645hr. Sukut foremen discussed safety/health and work scope of the day. After the meeting went to buggy and conducted ATV walk around. DB/BM preformed regular BMP check rounds and other duties. DB/BM checked Sukut lay down and hazmat storage areas for potential wildlife presence. And checked Largo lay down area where HDPE is stored to check for wildlife presence. None found. . Newtron trenches with appropriate wildlife escape ramps installed. Signed in JHA book at Largo west. DB/BM conducted routine Well Pad visits. Skid loader observed at Well Pad 1 and Well Pad 2 dispersing overflow fill water as required. Stop by the Sukut mechanic yard and DB introduced BM to head mechanic. DB/BM conducted routine off-site Den observation, mortality checks and switched of remote camera memory cards. DB takes BM to Guard Den where two CDF&G radio collared foxes are for a lesson on how to use the Omni for routine mortality checks. Return to solar fields and drove north exclusion fence of Unit 2 where current grading of remaining undisturbed ground is occurring for incidental unearthed wildlife salvage or recovering and proper disposal per MBTA and Rav Mgt Plan. DB/BM checked Tortoise trap and it is in good order. Returned to on-site office and DB showed BM aspects of various required clerical duties.

Monitor Checklist

General	Yes	No	N/A	Comments Attach Supplemental Report if needed
Workspace limits verified and properly marked?	X			
All activities within approved workspace limits?	X			
Only approved access roads utilized for ingress and egress?	X			
Access road signs in place?			X	
Trash and debris contained and disposed of in proper manner?	X			
Topsoil segregated properly?	X			
Topsoil segregation barriers maintained?			X	
All crew on site displaying hard-hat decals from WEAP training?	X			
Speed limit observed by all project personnel?	X			
Biological Issues	**Yes**	**No**	**N/A**	**Comments** Attach Supplemental Report if needed
Work area cleared by BM prior to construction activity beginning?	X			
Any desert tortoise or other T&E species encountered? If so, note		X		
species in comments and attach wildlife incident data form.	X			
Tortoise exclusionary fence and/or ramps intact?	X			
Any nesting birds observed? Note species (if known) and location.	X			shrike tree nest in CSAA
Common Ravens Present? If yes, note number and activity.	X			5flying and ground
All ESAs and other bio-related exclusion areas marked and avoided?	X			

Additional Notes: Checked on scrappers 57-61 and 57-56 with spill prevention protection in place.
Shrike tree nest in CSAA checked, while parents were on recess and no eggs found.

Genesis Solar Energy Project

Biological Monitor (BM) Daily Report Date 3/6/12

Monitor: Tsegaye Mengistu
Weather Conditions: cloudy/windy
High Temp. 75 Low Temp. 44

Start Time: 0600 Stop Time: 1500
Attachments: no
Photographs: yes

4

Circle One: **Plant Site** **Access Road** **Gas Line** **Transmission Line** **Other (explain)**

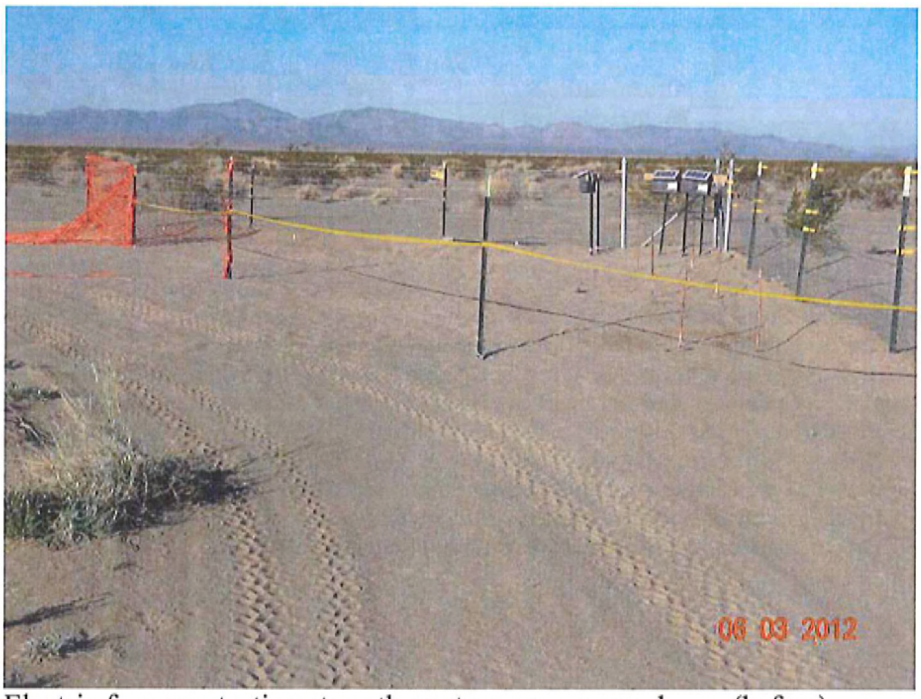
Activity Log:

Arrived at Genesis Solar Energy project site at 0600hr, joined Sukut JHA pre-construction meeting at 0615hr. Sukut foremen discussed safety/health and work scope of the day. After the meeting went to buggy and conducted ATV walk around. BM checked Sukut lay down and hazmat storage areas for potential wildlife presence. And checked Largo lay down area where uncapped HDPE is stored to check for wildlife presence. None found. . Newtron trenches with appropriate wildlife escape ramps installed. Signed in JHA book at Largo west. BM checked exclusion fence from SE Unit 2 to NW Unit 1. DB/BM return to Trailer City for weekly Internal Staff meeting. DB showed BM aspects of various required clerical duties. Field CM alerts all of high winds coming and need to keep trash containers covered and secure. After meeting DB resumes briefing BM on DB clerical duties and other required daily documentation filing. BM cleaned up litter at south fence line. High winds start midmorning as predicted and grading shuts down shortly after. BM went to clean out tortoise trap at solar field gate of sand from high winds.

Monitor Checklist

General	Yes	No	N/A	Comments Attach Supplemental Report if needed
Workspace limits verified and properly marked?	X			
All activities within approved workspace limits?	X			
Only approved access roads utilized for ingress and egress?	X			
Access road signs in place?			X	
Trash and debris contained and disposed of in proper manner?	X			
Topsoil segregated properly?	X			
Topsoil segregation barriers maintained?			X	
All crew on site displaying hard-hat decals from WEAP training?	X			
Speed limit observed by all project personnel?	X			
Biological Issues	**Yes**	**No**	**N/A**	**Comments** Attach Supplemental Report if needed
Work area cleared by BM prior to construction activity beginning?	X			
Any desert tortoise or other T&E species encountered? If so, note		X		
species in comments and attach wildlife incident data form.	X			
Tortoise exclusionary fence and/or ramps intact?	X			
Any nesting birds observed? Note species (if known) and location.	X			shrike tree nest in CSAA
Common Ravens Present? If yes, note number and activity.	X			3 flying
All ESAs and other bio-related exclusion areas marked and avoided?	X			

Additional Notes: Checked on scrappers 57-56 with spill prevention protection in place.
Shrike tree nest in CSAA checked.



Electric fence protection at north western corner was down. (before)

BM fixed the fence (after)

Trash along southern fence (before)

BM collected trash along southern fence.

Scrappers 57-56 with spill prevention protection in place and good job containing fugitive leak.

Wildlife escape ramps in place.

Genesis Solar Energy Project

Biological Monitor (BM) Daily Report

Date 3 / 7 / 2012

Monitor: Shelly Dayman
Weather Conditions : Clear, windy
High Temp.: 74 Low Temp.: 55

Start Time: 6:15 Stop Time: 4:00
Attachments:
Photographs: attached

Sites Monitored

Circle One:	Plant Site	Access Road	Gas Line	Transmission Line	Other (explain)
	Yes	Yes	N/A	N/A	N/A

Activity Log: Note activities monitored and timing of each activity.

615-JSA @scrapers with cultural monitors. No scraper activity today due to high winds.
630 - 200 in office to show new DB compliance requirements; CBO meeting and compliance meeting
130 - viewed trenches to determine if ramping was sufficient; DB determined that current ramping appears to be in compliance; DB will let BMs know to monitor number of trapped animals in trench to determine if this is a problem; if so, will need to revisit as could be increasing raven activity; raven was observed flying length of trench but did not stop
200 - downloaded kit fox photos from camera activity on 3/6/12;
300 - organized Nextera server filing system;
330 - reviewed questions and documents from DB for next day

Monitor Checklist

General	Yes	No	N/A	Comments Attach Supplemental Report if needed
Workspace limits verified and properly marked?	X			
All activities within approved workspace limits?	X			
Only approved access roads utilized for ingress and egress?	X			
Access road signs in place?	X			
Trash and debris contained and disposed of in proper manner?	X			
Topsoil segregated properly?	X			
Topsoil segregation barriers maintained?			X	
All crew on site displaying hard-hat decals from WEAP training?	X			
Speed limit observed by all project personnel?	X			
Biological Issues	**Yes**	**No**	**N/A**	**Comments** Attach Supplemental Report if needed
Work area cleared by BM prior to construction activity beginning?	X		X	BM present prior to construction
Any desert tortoise or other T&E species encountered? If so, note species in comments and attach wildlife incident data form.		X		
Tortoise exclusionary fence and/or ramps intact?	X			
Any nesting birds observed? Note species (if known) and location.		X		
Common Ravens Present? If yes, note number and activity.	X			Approx 5 or 6 ravens observed within project footprint; one appeared to be foraging along trench
All ESAs and other bio-related exclusion areas marked and avoided?			X	

Additional Notes:

Genesis Solar Energy Project

Biological Monitor (BM) Daily Report

Date 3 / 7 / 2012

Monitor: Eric German
Weather Conditions : Clear, windy
High Temp.: 74 Low Temp.: 55

Start Time: 6:15 Stop Time: 1700
Attachments:
Photographs: attached

Sites Monitored

Circle One:	Plant Site	Access Road	Gas Line	Transmission Line	Other (explain)
	Yes	Yes	N/A	N/A	N/A

Activity Log: Note activities monitored and timing of each activity.

615-JSA @scrapers with cultural monitors. No scraper activity today due to high winds.
630 - 200 in office to review DB roles and responsibilities; CBO meeting and compliance meeting
130 - viewed trenches to determine if ramping was sufficient; determined that current ramping appears to be in compliance; will let BMs know to monitor number of trapped animals in trench to determine if this is a problem; if so, will need to revisit as could be increasing raven activity;
200 - downloaded kit fox photos from camera activity on 3/6/12;
300 - coordinated with Dr. Clifford regarding ongoing kit fox telemetry;
330 - picked up telemetry equipment at CDFG office in Blythe
400 - reviewed BRMIMP and kit fox telemetry requirements sent by Dr. Clifford

Monitor Checklist

General	Yes	No	N/A	Comments Attach Supplemental Report if needed
Workspace limits verified and properly marked?	X			
All activities within approved workspace limits?	X			
Only approved access roads utilized for ingress and egress?	X			
Access road signs in place?	X			
Trash and debris contained and disposed of in proper manner?	X			
Topsoil segregated properly?	X			
Topsoil segregation barriers maintained?			X	
All crew on site displaying hard-hat decals from WEAP training?	X			
Speed limit observed by all project personnel?	X			
Biological Issues	**Yes**	**No**	**N/A**	**Comments** Attach Supplemental Report if needed
Work area cleared by BM prior to construction activity beginning?	X		X	BM present prior to construction
Any desert tortoise or other T&E species encountered? If so, note species in comments and attach wildlife incident data form.		X		
Tortoise exclusionary fence and/or ramps intact?	X			
Any nesting birds observed? Note species (if known) and location.		X		
Common Ravens Present? If yes, note number and activity.	X			Approx 6 ravens observed within project footprint
All ESAs and other bio-related exclusion areas marked and avoided?			X	

Additional Notes:

View of end sloping of trenches within desert tortoise fenced area.

Trench associated with caisson where backhoe could install sloping if it is determined through biomonitoring that there is increased raven activity because of animals being trapped in trench.

Genesis Solar Energy Project

Biological Monitor (BM) Daily Report Date 3/7/12

Monitor: Tsegaye Mengistu
Weather Conditions: Sunny/windy
High Temp. 74 Low Temp. 47

Start Time: 0600 Stop Time: 1600
Attachments: no
Photographs: no

4

Circle One: **Plant Site** **Access Road** **Gas Line** **Transmission Line** **Other (explain)**

Activity Log:

Arrived at Genesis Solar Energy project site at 0600hr. No operation for Sukut co. BM went to buggy and conducted ATV walk around. BM preformed regular BMP check rounds and other duties. BM went to clean out tortoise trap at solar field gate of sand from high winds. At 0845hrs BM checked Sukut lay down and hazmat storage areas for potential wildlife presence. And checked Largo lay down area where uncapped HDPE is stored to check for wildlife presence. None found. Newtron trenches with appropriate wildlife escape ramps installed. Signed in JHA book at Largo west. BM got a call from Shelly Dayman (AECOM Biologist) to remove road kill on access road. BM went to pole #38 and removed K.rat and properly disposed per MBTA and Rav Mgt Plan. At 1035hrs BM conducted routine Well Pad visits. At 1140hrs went to the Sukut mechanic yard, and no activities observed. At 1245hrs Eric Germen (DB), Shelly Dayman (AECOM Biologist) and BM joined to go to Newtron trenches and Largo lay down area for observation. BM conducted routine off-site Den observation, and switched of remote camera memory cards.

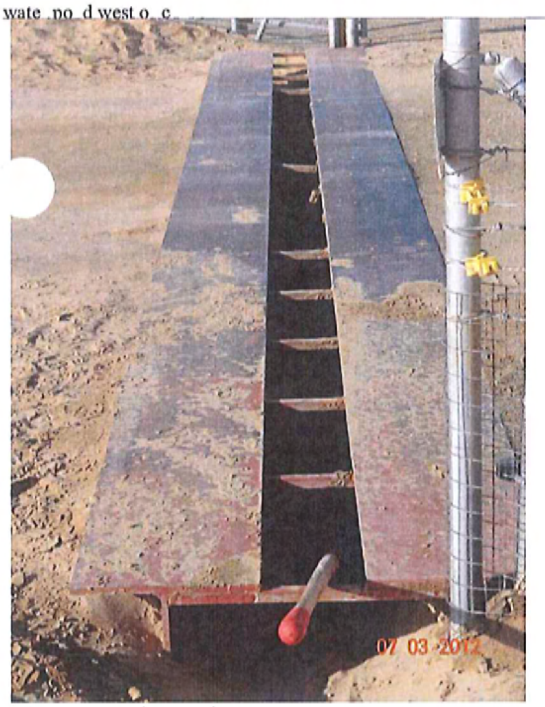
Water use readings: Well Pad 0 – 61971@1103hrs; Well Pad 1 – 77389 @1125hrs; Well Pad 2 – 134977 @1045hrs;

Monitor Checklist

General	Yes	No	N/A	Comments Attach Supplemental Report if needed
Workspace limits verified and properly marked?	X			
All activities within approved workspace limits?	X			
Only approved access roads utilized for ingress and egress?	X			
Access road signs in place?			X	
Trash and debris contained and disposed of in proper manner?	X			
Topsoil segregated properly?	X			
Topsoil segregation barriers maintained?			X	
All crew on site displaying hard-hat decals from WEAP training?	X			
Speed limit observed by all project personnel?	X			
Biological Issues	**Yes**	**No**	**N/A**	**Comments** Attach Supplemental Report if needed
Work area cleared by BM prior to construction activity beginning?	X			
Any desert tortoise or other T&E species encountered? If so, note		X		
species in comments and attach wildlife incident data form.	X			
Tortoise exclusionary fence and/or ramps intact?	X			
Any nesting birds observed? Note species (if known) and location.	X			shrike tree nest in CSAA
Common Ravens Present? If yes, note number and activity.	X			5flying and ground
All ESAs and other bio-related exclusion areas marked and avoided?	X			

Additional Notes:

wate_po_d west o_c



DT traps cleaned.

Porta potty down, high wind?

Porta patty leak

Road kill, K.rat at pole # 38 disposed.

Genesis Solar Energy Project

Biological Monitor (BM) Daily Report

Date 3 / 8 / 2012

Monitor: Shelly Dayman
Weather Conditions : Clear, windy
High Temp.: 74 Low Temp.: 55

Start Time: 6:15 Stop Time: 1700
Attachments:
Photographs: attached

Sites Monitored

Circle One:	Plant Site	Access Road	Gas Line	Transmission Line	Other (explain)
	Yes	Yes	N/A	N/A	N/A

Activity Log: Note activities monitored and timing of each activity.

615-JSA @scrapers with cultural monitors. No scraper activity today due to high winds.
630-office, downloaded kit fox photos from camera activity on 3/7/12, reviewed kit fox protocol for CDFG study
830-went with new DB to show all five camera stations for kit fox; found one potential WBO burrow near 8 West kit fox burrow (old white wash @ entrance), will be monitored for activity during AM kit fox surveys; GPS coordinate GenBB01 068135/3727924
1130-telemetry for guard station kit fox; confirmed that both Lil Tom and Yentil are alive and were inside burrow; noted that there were several trucks at guard station waiting for escorts
1200-began download of kit fox photos for 3/8/12;
1230-meetings with Charly, Gary Mann, and Cody regarding trucks @ guard station; this will be resolved once a connex trailer is established near guard station; DB to speak to Alan regarding training for Eric at connex station
1300 until 1410 -meeting with Charly and Cody regarding compliance
1410 to 1700 - review of kit fox photos to determine activity; meeting with Tsegaye to determine current BM roles and responsibilities

Monitor Checklist

General	Yes	No	N/A	Comments Attach Supplemental Report if needed
Workspace limits verified and properly marked?	X			
All activities within approved workspace limits?	X			
Only approved access roads utilized for ingress and egress?	X			
Access road signs in place?	X			
Trash and debris contained and disposed of in proper manner?	X			Some trash along fenceline, spoke to Cody/Charly and this is being cleaned
Topsoil segregated properly?	X			
Topsoil segregation barriers maintained?			X	
All crew on site displaying hard-hat decals from WEAP training?	X			
Speed limit observed by all project personnel?	X			
Biological Issues	**Yes**	**No**	**N/A**	**Comments** Attach Supplemental Report if needed
Work area cleared by BM prior to construction activity beginning?			X	Did not monitor construction
Any desert tortoise or other T&E species encountered? If so, note species in comments and attach wildlife incident data form.		X		
Tortoise exclusionary fence and/or ramps intact?	X			
Any nesting birds observed? Note species (if known) and location.	X			Known shrike nest with adult in tree
Common Ravens Present? If yes, note number and activity.	X			Approx 10 ravens observed within project footprint
All ESAs and other bio-related exclusion areas marked and avoided?	X			Shrike nest with exclusionary fencing in place

Additional Notes:

Potential burrowing owl burrow within buffer or project, on western side. Old white wash present, could not see to end of burrow. GPS coordinates, GenBB01 068135/3727924

Genesis Solar Energy Project

Biological Monitor (BM) Daily Report

Date 3 / 8 / 2012

Monitor: Eric German
Weather Conditions : Clear, windy
High Temp.: 74 Low Temp.: 55

Start Time: 6:15 Stop Time:
Attachments:
Photographs: attached

Sites Monitored

Circle One:	Plant Site	Access Road	Gas Line	Transmission Line	Other (explain)
	Yes	Yes	N/A	N/A	N/A

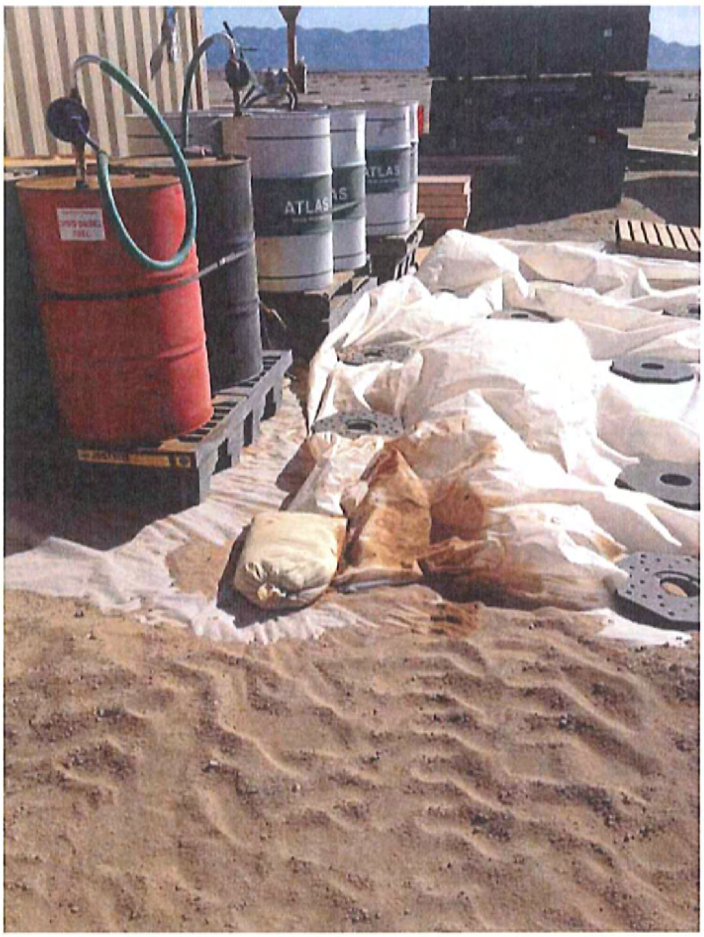
Activity Log: Note activities monitored and timing of each activity.

615-JSA @scrapers with cultural monitors. No scraper activity today due to high winds.
630-office, downloaded kit fox photos from camera activity on 3/7/12, reviewed kit fox protocol for CDFG study
830-shown all five camera stations for kit fox; found one potential WBO burrow near 8 West kit fox burrow (old white wash @ entrance), will be monitored for activity during AM kit fox surveys; GPS coordinate GenBB01 068135/3727924 but likely inactive due to ongoing monitoring of kit fox burrow in vicinity and no WBO observations
1130-telemetry for guard station kit fox; confirmed that both Lil Tom and Yentil are alive and were inside burrow; noted that there were several trucks at guard station waiting for escorts;
1200-began download of kit fox photos for 3/8/12;
1230-meetings with Charly, Gary Mann, and Cody regarding trucks @ guard station; this will be resolved once a connex trailer is established near guard station; will speak to Alan regarding training for Eric at connex station
1300 until 1410 -meeting with Charly and Cody regarding compliance
1410 to 1630 - review of kit fox photos to determine activity; meeting with Tsegaye to determine current BM roles and responsibilities
1700 - reviewing new WBO protocol issued by CDFG and determining relevance to project

Monitor Checklist

General	Yes	No	N/A	Comments Attach Supplemental Report if needed
Workspace limits verified and properly marked?	X			
All activities within approved workspace limits?	X			
Only approved access roads utilized for ingress and egress?	X			
Access road signs in place?	X			
Trash and debris contained and disposed of in proper manner?	X			Some trash along fenceline, spoke to Cody/Charly and this is being cleaned
Topsoil segregated properly?	X			
Topsoil segregation barriers maintained?			X	
All crew on site displaying hard-hat decals from WEAP training?	X			
Speed limit observed by all project personnel?	X			
Biological Issues	**Yes**	**No**	**N/A**	**Comments** Attach Supplemental Report if needed
Work area cleared by BM prior to construction activity beginning?	X		X	BM present prior to construction
Any desert tortoise or other T&E species encountered? If so, note species in comments and attach wildlife incident data form.		X		
Tortoise exclusionary fence and/or ramps intact?	X			
Any nesting birds observed? Note species (if known) and location.	X			Known shrike nest with adult in tree
Common Ravens Present? If yes, note number and activity.	X			Approx 10 ravens observed within project footprint
All ESAs and other bio-related exclusion areas marked and avoided?	X			Shrike nest with exclusionary fencing in place

Additional Notes:



Secondary containment site within Largo construction area. Determined that pallets were sufficient secondary containment and further berms would not be required. Notified Jenny Gavaldon and Charly Mosley regarding spill and contaminated soil and will be cleaned up.

Genesis Solar Energy Project

Biological Monitor (BM) Daily Report Date 3/8/12

Monitor: Tsegaye Mengistu
Weather Conditions: Sunny/windy
High Temp. 76 Low Temp. 49

Start Time: 0600 Stop Time: 1600
Attachments: no
Photographs: yes

4

Circle One: **Plant Site** **Access Road** **Gas Line** **Transmission Line** **Other (explain)**

Activity Log:

Arrived at Genesis Solar Energy project site at 0600hr. BM went to buggy and conducted ATV walk around. BM preformed regular BMP check rounds and other duties. At 0700 hrs BM checked Sukut lay down and hazmat storage areas for potential wildlife presence. And checked Largo lay down area where uncapped HDPE is stored to check for wildlife presence. None found. Newtron trenches with appropriate wildlife escape ramps installed. Signed in JHA book at Largo west and Newtron JHA book at Newtron east. At 1245hrs BM conducted routine Well Pad visits. At 1340hrs went to the Sukut mechanic yard, and no activities observed. BM went to clean out tortoise trap at solar field gate of sand from high winds. DB sent BM to change batteries for remote camera at 8 west. Checked DT exclusion fence and it is 99% intact.

Monitor Checklist

General	Yes	No	N/A	Comments Attach Supplemental Report if needed
Workspace limits verified and properly marked?	X			
All activities within approved workspace limits?	X			
Only approved access roads utilized for ingress and egress?	X			
Access road signs in place?			X	
Trash and debris contained and disposed of in proper manner?	X			
Topsoil segregated properly?	X			
Topsoil segregation barriers maintained?			X	
All crew on site displaying hard-hat decals from WEAP training?	X			
Speed limit observed by all project personnel?	X			
Biological Issues	**Yes**	**No**	**N/A**	**Comments** Attach Supplemental Report if needed
Work area cleared by BM prior to construction activity beginning?	X			
Any desert tortoise or other T&E species encountered? If so, note		X		
species in comments and attach wildlife incident data form.	X			
Tortoise exclusionary fence and/or ramps intact?	X			
Any nesting birds observed? Note species (if known) and location.	X			shrike tree nest in CSAA
Common Ravens Present? If yes, note number and activity.	X			11flying
All ESAs and other bio-related exclusion areas marked and avoided?	X			

Additional Notes: Visited shrike tree nest and shrike present in the nest.

ed

DT traps (before)

DT traps (after)

Poly John down on 3/7/12

Poly John is up and well secured 3/8/12

Building bridge to GSEP site.

Genesis Solar Energy Project

Biological Monitor (BM) Daily Report Date 03/09/2012

Monitor: Eric German
Weather Conditions: clear
High Temp.: 80 Low Temp.: 61

Start Time: 0600 Stop Time: 1730
Attachments:
Photographs: none

Sites Monitored

Underline: **Plant Site** **Access Road** **Gas Line** **Transmission Line** **Other (explain)**

Activity Log:

0600 Telemetry of Kit Fox
0615 Morning JSA with SUKUT at scrappers
0645 – 1330 Perform duties with Biological Monitor, Checked Trench for end slopes and animals. No animals found in trenches. Inspect laydown areas and areas around Largo and Newtron activities. Sign in at Bob Isaacson Newtron area. His area was clean and orderly. Received call from Jennifer, field compliance, to move sidewinder had Bio-Monitor move snake offfsite. Changed Camera Cards for Kit fox and checked perimeter fence.
1330 -1515 Summarize weekly kit fox information and telemetry data. Send data to requesting Personnel
1515-1700 Fill buggy with gas and check areas for trapped animals.
Note: Garbage was discussed with Project Personnel and they were taking action. Sylvia, Roberto and Alex were cleaning fence of garbage and did a good job.

Monitor Checklist

General	Yes	No	N/A	Comments Attach Supplemental Report if needed
Workspace limits verified and properly marked?	√			
All activities within approved workspace limits?	x			
Only approved access roads utilized for ingress and egress?	√			
Access road signs in place?	√			
Trash and debris contained and disposed of in proper manner?		x		Not all large bins are covered,
Topsoil segregated properly?	√			
Topsoil segregation barriers maintained?			x	
All crew on site displaying hard-hat decals from WEAP training?	√			all observed crews had decals
Speed limit observed by all project personnel?	√			
Biological Issues	**Yes**	**No**	**N/A**	**Comments** Attach Supplemental Report if needed
Work area cleared by BM prior to construction activity beginning?			x	construction not monitored,
Any desert tortoise or other T&E species encountered? If so, note species in comments and attach wildlife incident data form.		x		
Tortoise exclusionary fence and/or ramps intact?	√			
Any nesting birds observed? Note species (if known) and location.		√		no nesting observed
Common Ravens Present? If yes, note number and activity.		√		
All ESAs and other bio-related exclusion areas marked and avoided?	√			

Additional Notes: The exclusionary Desert Tortoise Grate is breaking down. It is still functional but will need to be addressed.

Genesis Solar Energy Project

Biological Monitor (BM) Daily Report Date 3/09/12

Monitor. T Mengistu, BM, DB E.German
Weather Conditions: Sunny
High Temp.: 86pm Low Temp.: 41am

Start Time: 0600hr Stop Time: 1630hr
Attachments:
Photographs:

Sites Monitored

Circle One: **Plant Site** **Access Road** **Gas Line** **Transmission Line** **Other (explain)**

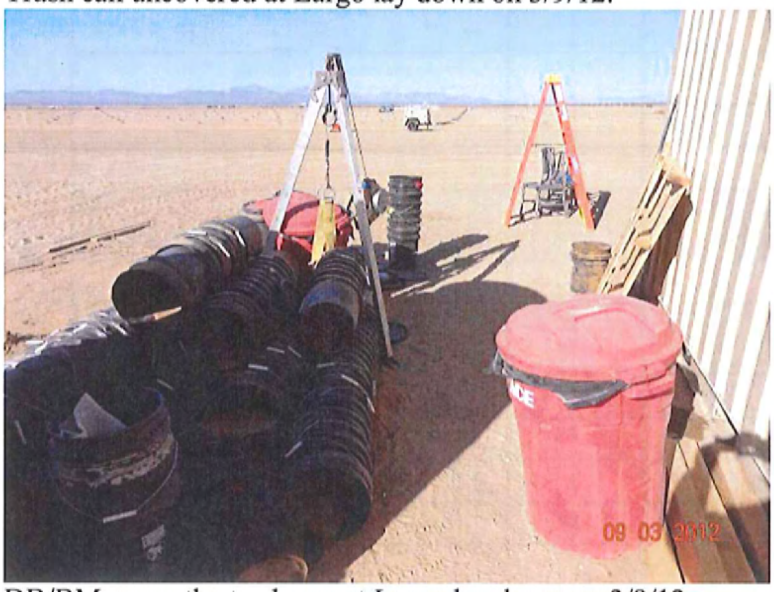
Activity Log:

Arrived at Genesis Solar Energy project site at 0600 hrs, joined Sukut JHA pre-construction meeting at 0615hrs. Sukut foremen discussed safety/health and work scope for the day. DB Arrived for Sukut JHA meeting and BM introduced DB to Sukut safety officer, Sukut super intend ant , and sukut foreman. After meeting DB/BM went to buggies for ATV walk around and training. BM takes DB and makes regular BMP check rounds and other duties. DB/BM checked Sukut lay down and hazmat storage areas for wildlife refuge. Next went to Largo lay down area where uncapped HDPE is stored to check for wildlife presence. Newtron trenches locations to see if appropriate wildlife escape ramps installed. Signed in JHA book at Newtron east and BM interduced DB to a foreman. DB/BM conducted routine Well Pad visits. Skid loader observed at Well Pad 1 and Well Pad 2 dispersing overflow fill water as required and BM introduced DB to the operator of Skid loader. Stop by the Sukut mechanic yard and introduce DB to head mechanic and field mechanic. DB/BM conducted routine off-site Den Obs mortality checks and rotation of remote camera memory cards. Return to solar fields and drove north of exclusion fence of Unit 2 showing DB where current grading of remaining undisturbed ground is occurring for incidental unearthed wildlife salvage or recovering and proper disposal per MBTA and Rav Mgt Plan. Check tortoise trap at front gate to solar field. DB/BM returns to on-site office for clerical duties. Dumpster needs to be in better order at Largo, Newtron, and R&B field office and lay down area. DB/BM found trash contains food and trash cans without a lead. Called Compliance manager and notified. DT exclusion fence is 100% intact. BM released at 1630hr.

M onitor Checklist	Yes	No	N/A	Comments Attach Supplemental Report if needed
General				
Workspace limits verified and properly marked?	X			
All activities within approved workspace limits?	X			
Only approved access roads utilized for ingress and egress?	X			
Access road signs in place?			X	
Trash and debris contained and disposed of in proper manner?	X			
Topsoil segregated properly?	X			
Topsoil segregation barriers maintained?			X	
All crew on site displaying hard-hat decals from WEAP training?	X			
Speed limit observed by all project personnel?	X			
Biological Issues	**Yes**	**No**	**N/A**	**Comments** Attach Supplemental Report if needed
Work area cleared by BM prior to construction activity beginning?	X			
Any desert tortoise or other T&E species encountered? If so, note species in comments and attach wildlife incident data form.		X		
Tortoise exclusionary fence and/or ramps intact?	X			
Any nesting birds observed? Note species (if known) and location.	X			shrike tree nest in CSAA,
Common Ravens Present? If yes, note number and activity.	X			4 flying over Common Area
All ESAs and other bio-related exclusion areas marked and avoided?	X			

Additional Notes:
Checked on scrappers 57-61 spill prevention protection in place as shown below.

Trash can uncovered at Largo lay down on 3/9/12.



DB/BM cover the trash can at Largo lay down on 3/9/12.

09 03 2012

09 03 2012

09 03 2012

Trash and spill at Largo lay down on 3/9/12.

09 03 2012

09 03 2012

Trash and spill cleaned at Largo lay down 2hr later on 3/9/12.

DB switching memory card at mid south location on 3/9/12.

Sidewinder rattle snake removed using proper AECOM protocol to BLM land east of project site.

Genesis Solar Energy Project

Biological Monitor (BM) Daily Report — Date 03/10/2012

Monitor: Eric German
Weather Conditions: clear
High Temp.: 64 Low Temp.: 84

Start Time: 0600 Stop Time: 1715
Attachments:
Photographs: none

Sites Monitored

Underline: **Plant Site** **Access Road** **Gas Line** **Transmission Line** **Other (explain)**

Activity Log:

0600 Telemetry of Kit Fox
0615 Morning JSA with SUKUT at scrappers
0645 – 1330 Checked Trench and pitfalls for end slopes and animals. No animals found in trenches or pitfalls. Inspect laydown areas and areas around Largo and Newtron activities. Checked for puddling near Water Tanks puddles are being removed. Changed Camera Cards for Kit fox and checked perimeter fence. Called to remove shovel-nosed snake. Snake left area prior to my arrival. Perimeter fence observed appeared fine. Monitored paved road. Note: Kit fox prints were noted in the SW corner of Unit 1.
1330 removed and buried a desert iguana from site.
1400 inspected trenches and pitfalls. No findings.
1515 reviewed BRMIMP
Note: Water truck was observed watering reseeded area along paved access road.

Monitor Checklist

General	Yes	No	N/A	Comments Attach Supplemental Report if needed
Workspace limits verified and properly marked?	√			
All activities within approved workspace limits?	x			
Only approved access roads utilized for ingress and egress?	√			
Access road signs in place?	√			
Trash and debris contained and disposed of in proper manner?		x		Not all large bins are covered,
Topsoil segregated properly?	√			
Topsoil segregation barriers maintained?			x	
All crew on site displaying hard-hat decals from WEAP training?	√			all observed crews had decal
Speed limit observed by all project personnel?	√			

Biological Issues	Yes	No	N/A	Comments Attach Supplemental Report if needed
Work area cleared by BM prior to construction activity beginning?			x	construction not monitored,
Any desert tortoise or other T&E species encountered? If so, note species in comments and attach wildlife incident data form.		x		
Tortoise exclusionary fence and/or ramps intact?	√			
Any nesting birds observed? Note species (if known) and location.		√		no nesting observed
Common Ravens Present? If yes, note number and activity.	x			10 ravens, one with food waste
All ESAs and other bio-related exclusion areas marked and avoided?	√			

Additional Notes: The exclusionary Desert Tortoise Grate is breaking down. It is still functional but will need to be addressed.

Genesis Solar Energy Project

Biological Monitor (BM) Daily Report — Date 03/12/2012

Monitor: Eric German
Weather Conditions: clear
High Temp.: Low Temp.:

Start Time: 0640 Stop Time: 1830
Attachments:
Photographs: none

Sites Monitored

Underline: **Plant Site** **Access Road** **Gas Line** **Transmission Line** **Other (explain)**

Activity Log:

Met with Matt Kedziora, Biological Monitor. Showed him kit fox telemetry using omni. Escorted Matt to WEAP following JSA. Following his training showed Matt some of his duties and inspected trenches, pitfalls and laydown yards. Removed a desert iguana from scraper area from site.
Attended Sukut JSA at scrappers.
Worked with Charly and Jennifer. Discussed self closing bins (BIO 8, 15.) Per discussion, the project have had the existing garbage cans approved due to lack of appropriate container availability. Also, discussed tarping of large dumpsters. Better tarping is now being done over dumpsters that have food waste. I have asked for suggestions on how to cover all dumpsters including non food dumpsters. Requested that Porta Potties just outside fenced area are moved inside. They were moved into the enclosed area. Discussed seed watering on South side of road, I need to talk with Rod about watering schedule.
Discussions with Bill Watson regarding upcoming transmission line and pipe. Discussed the possibility of using rest area for morning safety meetings. I think it will be okay provided no staging, all parking for meeting is on pavement, and ground beneath all vehicles is inspected for tortoise.
Met with Allyn Points, materials manager, regarding Conex set up at beginning of access road. We will meet and discuss later. Activity not scheduled to start for two weeks. There appears to be a variance in place that requires drivers without WEAP to be escorted. (September 28, 2011:Eric Veerkamp)
Discussions with Cody regarding tortoise grate. It appears as if grate is constructed of IBeams and attached at bottom. Top bars were for moving. Gap today is about 7 ¾ " and appears adequate. As of now no repairs needed.
Called to remove shovel-nosed snake, it was removed prior to arrival and released tower 138.
Performed Kit Fox Camera Card Exchange. The camera at S Fence is not functioning properly and will be switched.
Spoke with Chuck Griffin and will meet with him tomorrow.

M onitor Checklist	Yes	No	N/A	Comments Attach Supplemental Report if needed
General				
Workspace limits verified and properly marked?	√			
All activities within approved workspace limits?	x			
Only approved access roads utilized for ingress and egress?	√			
Access road signs in place?	√			
Trash and debris contained and disposed of in proper manner?		x		Not all bins are covered, see note
Topsoil segregated properly?	√			
Topsoil segregation barriers maintained?			x	
All crew on site displaying hard-hat decals from WEAP training?	√			all observed crews had decal
Speed limit observed by all project personnel?	√			
Biological Issues	**Yes**	**No**	**N/A**	**Comments** Attach Supplemental Report if needed
Work area cleared by BM prior to construction activity beginning?			x	construction not monitored,
Any desert tortoise or other T&E species encountered? If so, note species in comments and attach wildlife incident data form.		x		
Tortoise exclusionary fence and/or ramps intact?	√			
Any nesting birds observed? Note species (if known) and location.		√		no nesting observed
Common Ravens Present? If yes, note number and activity.	x			9 ravens foraging, 1 in pole

All ESAs and other bio-related exclusion areas marked and avoided? √

Additional Notes: The ARB Large Trash Bin is now covered with two tarps. There are two other bins that are not covered that contain cardboard and metal that will be covered to help prevent inadvertent food trash dumping.

Genesis Solar Energy Project

Biological Monitor (BM) Daily Report — Date 3/ 12/2012

Monitor: Matt Kedziora
Weather Conditions: sun, no wind
High Temp.: 77 Low Temp.: 68

Start Time: 0640 Stop Time: 1915
Attachments: 1
Photographs: 5

Sites Monitored

Circle One: **Plant Site** **Access Road** **Gas Line** **Transmission Line** **Other (explain)**

Activity Log:

0640 meet Eric, check two KFOX (00445, 01195)- both present. 0700 Safety tailboard. 0715 Safety training with Jessica until 0915. Discuss seeding on south side of access road with compliance folk (Charlie and Jessica). Call from Sujkit- found desert iguana and trapped in bucket; Eric and I relocate to burrow outside of fence 0930. Ride with Eric to review site 0945-1240: tasks completed include: Steam generator area tailboard sign-in and discuss oil spill site setups with supervisor (Largo- Haskell). Check all trench ramps. At 1130 check water towers for standing water. At 1145 check Casson covers in northwest. 1150 sign in with Bon Issacson JSA at mirror installation area. 1155 meet welder chief Tom West to discuss rebar pile for removal to deter nesting activity. 1225 main gate dig out DT tunnel/gate, filled with dirt. Drop Eric off at office, cruise to Arizona crossing to look for irregularities on entrance road. Pick up roll of toilet paper that fell off delivery truck (1310). 1400- use my fire extinguisher to put out fire in cigarette butt holder next to building. 1405- meeting at office- daily "what can we fix" meeting. Talk about solutions to trash problems, meeting done 1440. Cruise property and check staging piles for nesting activity-none. 1500-Monitor porta-potty move from outside main gate entrance to inside. 2 Utas sp. spotted underneath moved. Check bridge construction and find opened gallon of concrete finisher chemical left behind by crews, and much trash. 1600- photo concrete footer excavation (15x15x4 feet)- dug today for power block- will monitor in AM to start day. 1630 shovelnose snake relocated by BLM guy, found in cut. 1645-1745- change data cards out of NW kit fox camera traps, review end-of-day fox duties with Eric. 1745-1845 compile data in office and discuss tomorrow's monitoring. 1915- monitor two collared KFOX- no hits

Monitor Checklist

General	Yes	No	N/A	Comments Attach Supplemental Report if needed
Workspace limits verified and properly marked?	x			
All activities within approved workspace limits?	x			
Only approved access roads utilized for ingress and egress?	x			
Access road signs in place?	x			
Trash and debris contained and disposed of in proper manner?		x		
Topsoil segregated properly?			x	
Topsoil segregation barriers maintained?			x	
All crew on site displaying hard-hat decals from WEAP training?	x			
Speed limit observed by all project personnel?	x			
Biological Issues	**Yes**	**No**	**N/A**	**Comments** Attach Supplemental Report if needed
Work area cleared by BM prior to construction activity beginning?			x	
Any desert tortoise or other T&E species encountered? If so, note species in comments and attach wildlife incident data form.		x		
Tortoise exclusionary fence and/or ramps intact?	x			
Any nesting birds observed? Note species (if known) and location.		x		
Common Ravens Present? If yes, note number and activity.	x			11 seen throughout day- flying
All ESAs and other bio-related exclusion areas marked and avoided?	x			

Additional Notes: other species seen today- HOLA, RTHA, UTA SP.

Genesis Solar Energy Project

Biological Monitor (BM) Daily Report _Photo Log _____ Date __3/12/2012

Matt Kedziora

Photo 1. Digging out dirt in DT crossing at main gate

Photo 2. Moving porta-potty to inside DT fence at main gate

Photo 4. Excavation complete for power block footers

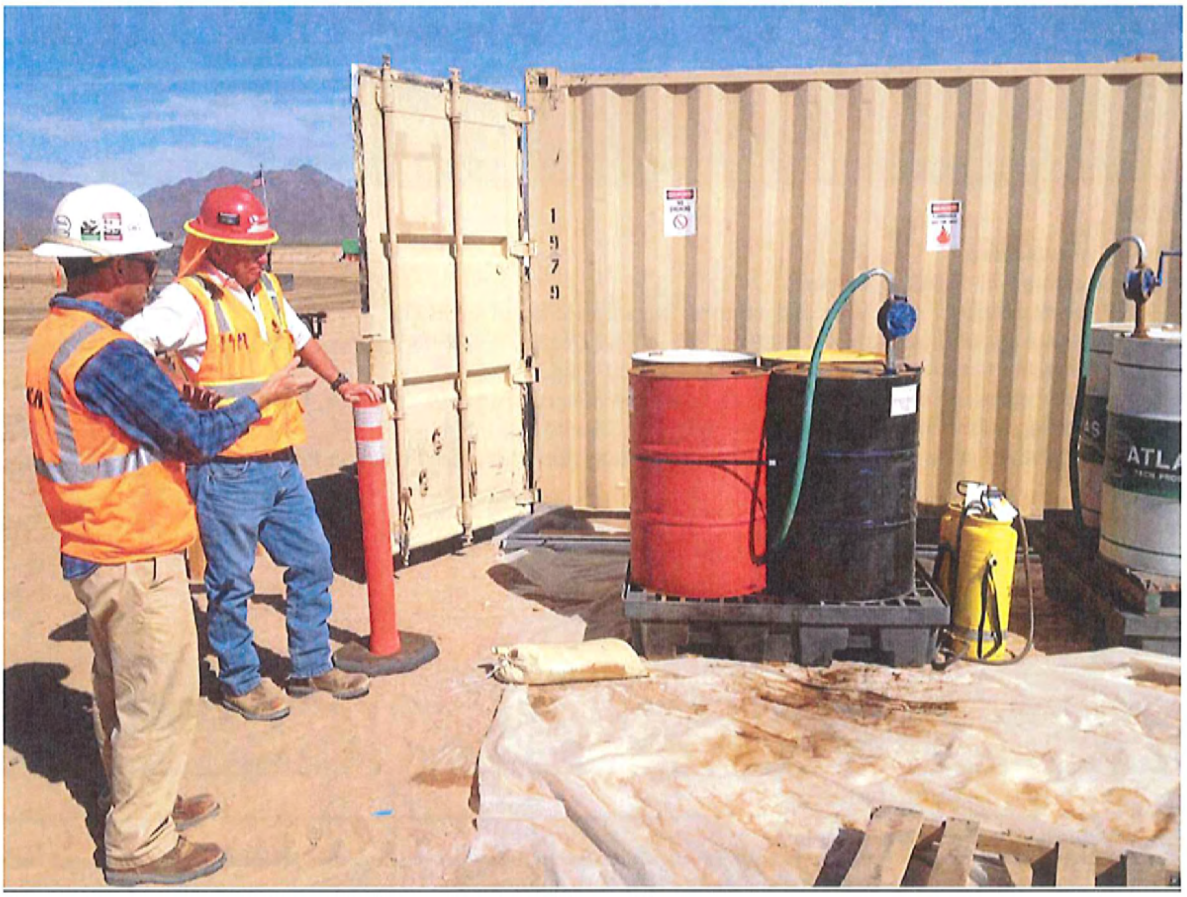


Photo 5. Designated biologist discussing BMP for spills

Genesis Solar Energy Project

Biological Monitor (BM) Daily Report — Date 03/13/2012

Monitor: Eric German
Weather Conditions: clear
High Temp.: 81 Low Temp.: 65

Start Time: 0640 Stop Time: 1915
Attachments:
Photographs: none

Sites Monitored

Underline: **Plant Site** **Access Road** **Gas Line** **Transmission Line** **Other (explain)**

Activity Log:

0640 Survey Access Road.
0700 Safety meeting with Sukut at scrapers.
0730 – 1400 Check trench for end slopes and animals. No animals found in trenches.
Called to investigate a spill the contractor, Curtis of Sukut, had cleaned it up before arrival. Had bio monitor access road.
Speeding by concrete trucks was noted. Discussed at 1400 meeting.
Reports of kit fox in morning crossing access road. Informed of upcoming work in Unit 1, Blocks 2,3, and 4
During 1400 meeting informed of upcoming work in Unit 1, Blocks 2,3, and 4.
1530- 1730 Re-surveyed areas for nesting birds and kit fox dens (inside enclosed area) no findings of nesting birds or kit fox.

Monitor Checklist

General	Yes	No	N/A	Comments Attach Supplemental Report if needed
Workspace limits verified and properly marked?	√			
All activities within approved workspace limits?	x			
Only approved access roads utilized for ingress and egress?	√			
Access road signs in place?	√			
Trash and debris contained and disposed of in proper manner?		x		Not all large bins are covered,
Topsoil segregated properly?	√			
Topsoil segregation barriers maintained?			x	
All crew on site displaying hard-hat decals from WEAP training?	√			all observed crews had decals
Speed limit observed by all project personnel?	√			
Biological Issues	**Yes**	**No**	**N/A**	**Comments** Attach Supplemental Report if needed
Work area cleared by BM prior to construction activity beginning?			x	construction not monitored,
Any desert tortoise or other T&E species encountered? If so, note species in comments and attach wildlife incident data form.		x		
Tortoise exclusionary fence and/or ramps intact?	√			
Any nesting birds observed? Note species (if known) and location.		√		
Common Ravens Present? If yes, note number and activity.	x			3 near scrapers, 3 flying over trailers
All ESAs and other bio-related exclusion areas marked and avoided?	√			

Additional Notes: Reminded persons at 1400 meeting about speeding. Also discussed garbage and trying to get covered containers for waste.

Genesis Solar Energy Project

Biological Monitor (BM) Daily Report — Date 3/ 13/2012

Monitor: Matt Kedziora
Weather Conditions: sun, afternoon wind 5-7 mph
High Temp.: 82 Low Temp.: 55

Start Time: 0510 Stop Time: 1825
Attachments: 1
Photographs: 3

Sites Monitored

Circle One: **Plant Site** **Access Road** **Gas Line** **Transmission Line** **Other (explain)**

Activity Log:

Arrive at guard shack 0510 (temp 55F, calm). Locate 00454 fox 0.8 miles west along access road, no location of 1195. Cars begin on entrance road at 0520, no water truck activity yet. Monitor road activity. 0630 Arrive DT guard plat at entrance (now 49F), clean out dirt along fence contact with guard plate and inside grate. Tailboard at 0700. Into office 0730, download fox camera pictures from yesterday and rig up new camera for site. Conduct morning rounds beginning 0820. Rounds include checking trenches in Unit 1 and 2, including excavated power grid squares. Check in with Largo, look at rebar lay-down area for fauna activity. At 0920 go with Eric to respond to spill in cut scraper area in Unit 2, but spill already cleaned up. At 0945 monitor access road to locate fox at guard den, find fox #1195 at 1045 and 00454 at 1100, both at den site. Change data card at guard den camera. Return to Unit 2, check lay-down storage areas. Lunch 1200-1230. At 1230 return to office and review project documents (breeding bird survey and nest search protocols) until 1400. At 1400 go and check/change remaining fox camera data cards. At 1430 in southwest corner of Unit 1 see unusual ground squirrel- no stripes seen, will set up camera on burrow tomorrow. When approaching camera at 1KMS, fox seen sunning on mound outside den, back away and do not change camera card. Return to office to get Eric at 1500 for brush clearing nest surveys at Unit 1 section 3 and 4 (1525-1610) and section 2 (1620-1530). No nests found, one unknown bird seen in section 3(probable HOLA). Return ATV and drive to guard shack, get both fox at Arizona crossing at 1759. End of day 80 F wind 5-7 mph.

Monitor Checklist

General	Yes	No	N/A	Comments Attach Supplemental Report if needed
Workspace limits verified and properly marked?	x			
All activities within approved workspace limits?	x			
Only approved access roads utilized for ingress and egress?	x			
Access road signs in place?	x			
Trash and debris contained and disposed of in proper manner?	X			
Topsoil segregated properly?			x	
Topsoil segregation barriers maintained?			x	
All crew on site displaying hard-hat decals from WEAP training?	x			
Speed limit observed by all project personnel?	x			
Biological Issues	**Yes**	**No**	**N/A**	**Comments** Attach Supplemental Report if needed
Work area cleared by BM prior to construction activity beginning?			x	
Any desert tortoise or other T&E species encountered? If so, note species in comments and attach wildlife incident data form.		x		
Tortoise exclusionary fence and/or ramps intact?	x			
Any nesting birds observed? Note species (if known) and location.		x		
Common Ravens Present? If yes, note number and activity.	x			4 seen throughout day- flying
All ESAs and other bio-related exclusion areas marked and avoided?	x			

Additional Notes: other species seen today- HOLA, Say's Phoebe, Barn swallow, Desert iguana, unknown squirrel, *Uta* sp.

Genesis Solar Energy Project
Biological Monitor (BM) Daily Report _Photo Log _____ Date _3/13/2012
Matt Kedziora

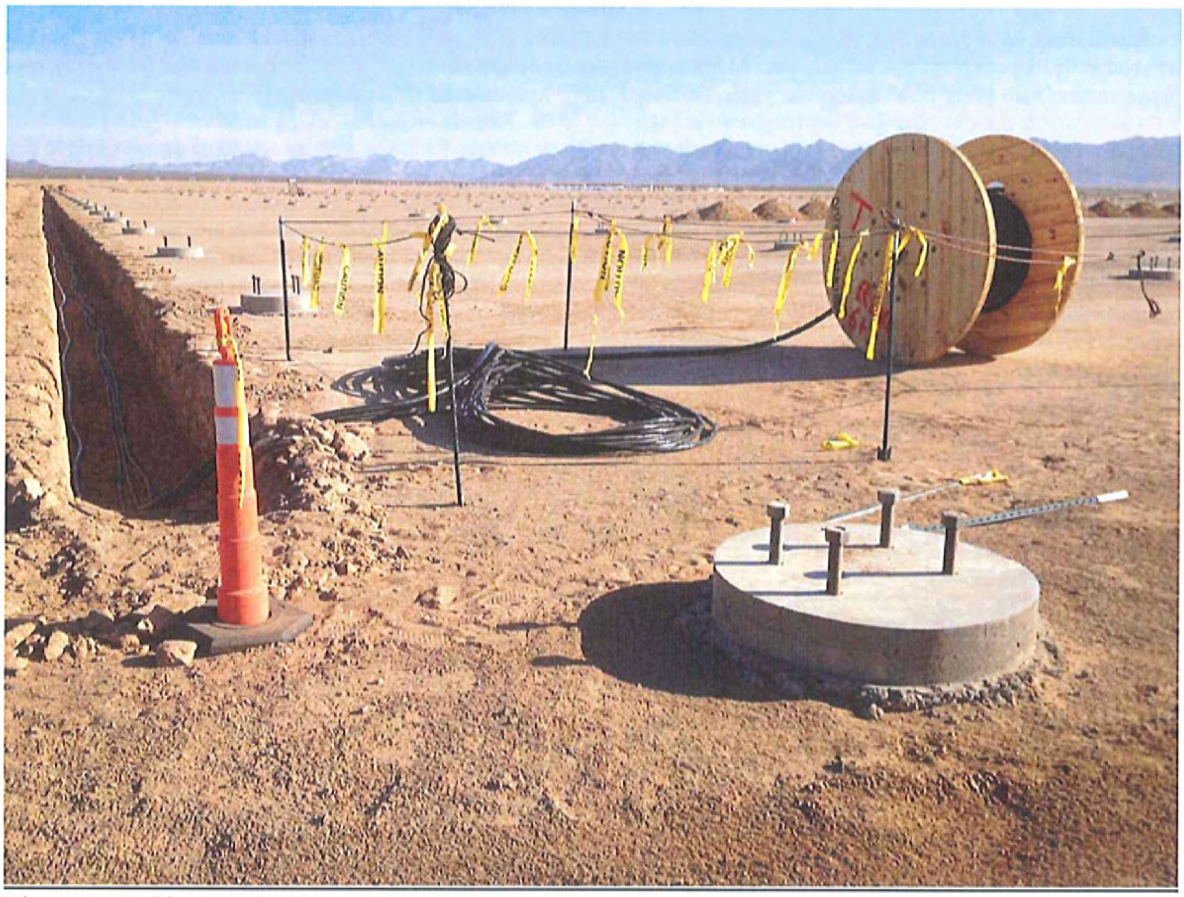


Photo 1. Cable trenches in Unit 1

Photo 2. Moving mirrors into installment areas

Photo 3. Nest surveys prior to brush clearing, Unit 1 Section 3

Genesis Solar Energy Project

Biological Monitor (BM) Daily Report — Date 03/14/2012

Monitor: Eric German
Weather Conditions: clear
High Temp.: 82 Low Temp.:

Start Time: 0600 Stop Time: 1950
Attachments:
Photographs: none

Sites Monitored

Underline: **Plant Site** **Access Road** **Gas Line** **Transmission Line** **Other (explain)**

Activity Log:

0600 Survey/monitor access road. Most vehicles appeared to be obeying speed limit. One Kit Fox observed by an employee.
0615 – 0650 Preconstruction survey at Unit 1, Block 2. Surveyed for nesting birds, none observed.
0700 Safety meeting with Sukut at scrapers.
0800 – 0900 Met and talked with BLM, Bureauveritas, Rep.
0900-1100 Office
1130 Trench Inspection, Inspect gate, laydown areas and water fill areas.
1400 Two OClock Meeting
1500 Meeting with Allyn Points
1600-1845 Nesting BirdSurvey in requested areas of Unit 1 Block 4 and Unit 1 Block 2. No findings of nests, nesting birds or kit fox in these areas.
Confirmed Shrike nest is active.

Monitor Checklist

General	Yes	No	N/A	Comments Attach Supplemental Report if needed
Workspace limits verified and properly marked?	√			
All activities within approved workspace limits?	x			
Only approved access roads utilized for ingress and egress?	√			
Access road signs in place?	√			
Trash and debris contained and disposed of in proper manner?		x		Client is working on better containers, Thks
Topsoil segregated properly?	√			
Topsoil segregation barriers maintained?			x	
All crew on site displaying hard-hat decals from WEAP training?	√			all observed crews had decals
Speed limit observed by all project personnel?	√			

Biological Issues	Yes	No	N/A	Comments Attach Supplemental Report if needed
Work area cleared by BM prior to construction activity beginning?	x			
Any desert tortoise or other T&E species encountered? If so, note species in comments and attach wildlife incident data form.		x		
Tortoise exclusionary fence and/or ramps intact?	√			
Any nesting birds observed? Note species (if known) and location.	X			Loggerhead Shrike, loc. CSAA
Common Ravens Present? If yes, note number and activity.	x			1 with lizard, 4 others flying
All ESAs and other bio-related exclusion areas marked and avoided?	√			

Additional Notes:

Genesis Solar Energy Project

Biological Monitor (BM) Daily Report Date 3/ 14/2012

Monitor: Matt Kedziora
Weather Conditions: sun, light wind end of day
High Temp.: 81 Low Temp.: 55

Start Time: 0510 Stop Time: 1915
Attachments: 1
Photographs: 4

Sites Monitored

Circle One: **Plant Site** **Access Road** **Gas Line** **Transmission Line** **Other (explain)**

Activity Log: 0515 arrive at guard shack and receive fox # 1195 on receiver. Due to close proximity of transmission, use flasher lights to slow down vehicles entering access road. No reading of fox #00454 until 0548. Start day at Unit 1 section 2, slated for grading; search for nesting activity (none). Water truck wets down site prior to scraper activity. Meet and discuss monitoring activity with Archy crew chief James (AECOM). Scrapers begin at 0800. Dead kangaroo rat at 0839 and 0905. Eric calls and asks me to visit 2 ungraded sites in Unit 2 block 1 and 3, areas not graded yet (both areas released for grading-no activity). At 1140 check guard shack fox, pick up only 1195 on receiver, but then both at den. Check road for speeding vehicles and fauna activity. 1200 temp 75, cloud 10%, no wind. Back to office for download and organization of fox photos. 1330 begin nest clearance surveys in Unit 1 block 2. See 6 ground squirrels, LOSH in ironwood tree, prairie falcon. Join Eric at 1637 for continued nest clearing surveys in Unit 1 sect 2 (until 1830). Check activity of and photograph LOSH nest with 4 eggs. Go to change 1KMS camer, but fox is laying out of den, no card change. Receive both fox at guard shack den site (1857). End of day 83 cloud 0, wind 0-2 at 1900.

Checklist

General	Yes	No	N/A	Comments Attach Supplemental Report if needed
Workspace limits verified and properly marked?	x			
All activities within approved workspace limits?	x			
Only approved access roads utilized for ingress and egress?	x			
Access road signs in place?	x			
Trash and debris contained and disposed of in proper manner?		x		
Topsoil segregated properly?			x	
Topsoil segregation barriers maintained?			x	
All crew on site displaying hard-hat decals from WEAP training?	x			
Speed limit observed by all project personnel?	x			

Biological Issues	Yes	No	N/A	Comments Attach Supplemental Report if needed
Work area cleared by BM prior to construction activity beginning?			x	
Any desert tortoise or other T&E species encountered? If so, note species in comments and attach wildlife incident data form.		x		
Tortoise exclusionary fence and/or ramps intact?	x			
Any nesting birds observed? Note species (if known) and location.	x			possible LOSH
Common Ravens Present? If yes, note number and activity.	x			2 seen throughout day- flying
All ESAs and other bio-related exclusion areas marked and avoided?	x			

Additional Notes: other species seen today- HOLA, Say's phoebe, desert iguana, LOSH, *Uta* sp. , prairie falcon, ground squirrel, horned lizard, CORA

Genesis Solar Energy Project
Biological Monitor (BM) Daily Report Photo Log Date 3/14/2012
Matt Kedziora

Photo 1. Unit 1 section 2 grading. Note area on right with *Plantago*, area on left already graded.

Photo 2. Blooming evening primrose, *Oenothera* sp.

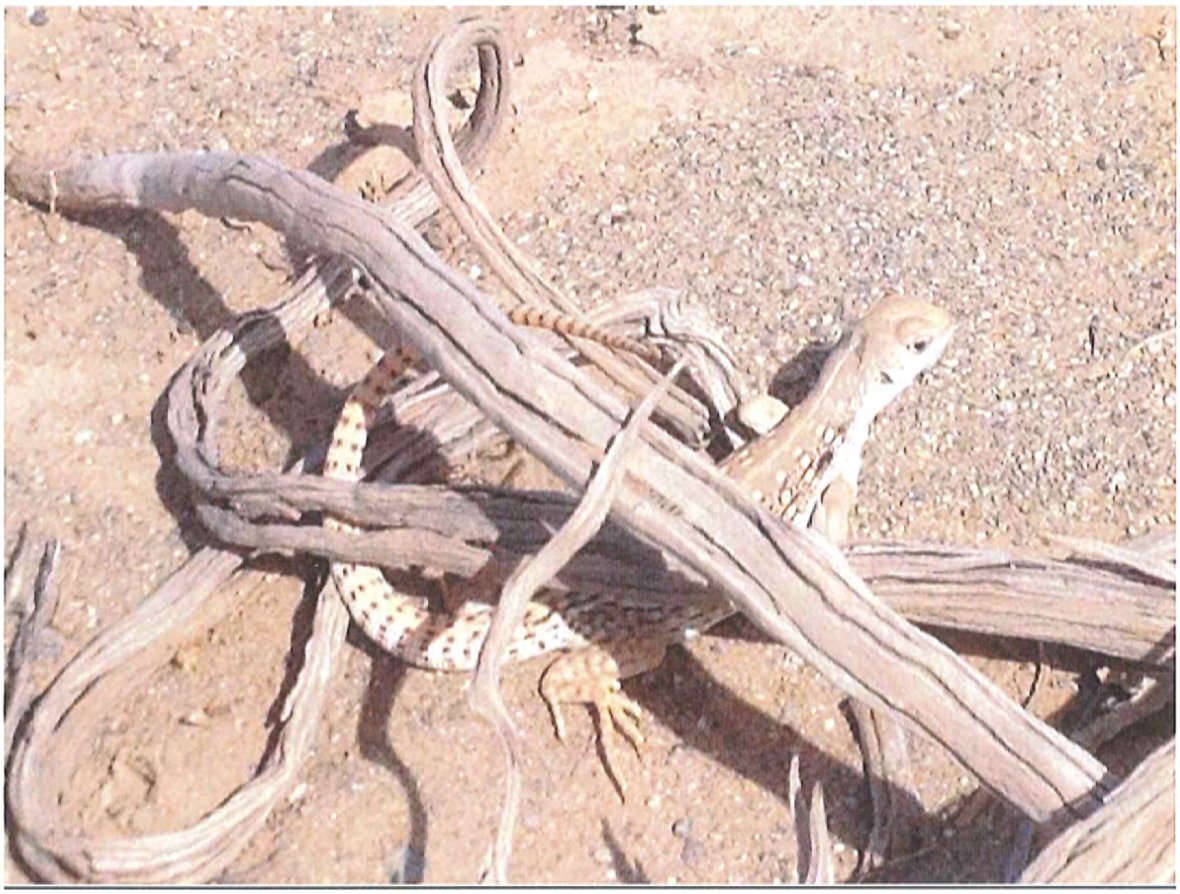


Photo 3. Desert iguana *(Dipsosaurus dorsalis)*

Photo 4. Potential loggerhead shrike nest in ironwood, Unit 1 west

Genesis Solar Energy Project

Biological Monitor (BM) Daily Report — Date 03/15/2012

Monitor: Eric German
Weather Conditions: clear
High Temp.: 85 Low Temp.:

Start Time: 0600 Stop Time: 1900
Attachments:
Photographs: none

Sites Monitored

Underline: **Plant Site** **Access Road** **Gas Line** **Transmission Line** **Other (explain)**

Activity Log:

0600 Survey/monitor access road. Most vehicles appeared to be obeying speed limit.
0615 – 0650 Preconstruction survey at Unit 1, Block 2. Surveyed for nesting birds, none observed.
0700 Safety meeting with Sukut at scrapers.
0745- 0845 Surveyed for nesting birds in Unit 1, Block 4 and strip below Block 8.
0900 -1330 prepare reports.
0900-1100 Office
1130 Trench Inspection, Inspect gate, laydown areas and water fill areas.
1400 Two OClock Meeting
1500 Contact agencies regarding Shrike Nest.
1600 Gather Baseline data for shrike

Monitor Checklist

General	Yes	No	N/A	Comments Attach Supplemental Report if needed
Workspace limits verified and properly marked?	√			
All activities within approved workspace limits?	x			
Only approved access roads utilized for ingress and egress?	√			
Access road signs in place?	√			
Trash and debris contained and disposed of in proper manner?		x		The site is much cleaner
Topsoil segregated properly?	√			
Topsoil segregation barriers maintained?			x	
All crew on site displaying hard-hat decals from WEAP training?	√			all observed crews had decals
Speed limit observed by all project personnel?	√			

Biological Issues	Yes	No	N/A	Comments Attach Supplemental Report if needed
Work area cleared by BM prior to construction activity beginning?			x	
Any desert tortoise or other T&E species encountered? If so, note species in comments and attach wildlife incident data form.		x		
Tortoise exclusionary fence and/or ramps intact?	√			
Any nesting birds observed? Note species (if known) and location.	x			Loggerhead Shrike, CSAA
Common Ravens Present? If yes, note number and activity.	x			2 sleeping in morning, 8 flying
All ESAs and other bio-related exclusion areas marked and avoided?	√			

Additional Notes: Crews observed at 6:00 were obeying speed and spacing. Good Job!

Genesis Solar Energy Project

Biological Monitor (BM) Daily Report

Date 03 / 15 / 2012

Monitor: Matt Kedziora
Weather Conditions : Clear
High Temp.: 88F Low Temp.: 50F

Start Time: 0520 Stop Time: 1900
Attachments: 0
Photographs: 0

Sites Monitored

Circle One:	Plant Site	Access Road	Gas Line	Transmission Line	Other (explain)
	yes	yes	no	no	no

Activity Log: Note activities monitored and timing of each activity.

Arrive at guard shack 0525. (temp 50, no wind, clear). Receive 00445 at 0535, drive to main entrance to monitor road, back to guard shack, receive 1195. Both fox now at den site. At 0645 monitor Unit 1 Block 4 for nests (east-west transect). Pair of shrikes monitored at ironwood tree from western Block 4. Female shrike on and off nest in north tree at 0718. End nest monitoring at 0835. Then to office at 0900 until 1430- write 3 days for nesting bird survey reports. 1430 go to change out guard shack den camera card, both fox in den. (Temp 81F, no wind or clouds). 1505 at main entrance gate, knock down dirt piles dug out by crews at DT guard plate. 1530 sign in at Largo and check all trenches for proper ramps- all ok. Check all lay down yards for bird activity (none) and check Largo water tower for standing water (none). The change out all other camera disks from 1610-1705. At 1705 start nest search in Northwestern Unit 1, but called off to assist Eric in a nest viewing (he found a nest south and outside DT fence in 3rd ironwood). Climb over electified fence and look at nest- last year's nest determined by old lining- looks like a failed nest, fox scat below nest, which is tilted like it spilled or was pulled down. Then over to installed solar panels for pictures. 1830 check newly dug water line trench (dug today) by office for proper ramp installation- all ok. 1845 arrive at guard shack by fox den- receive both fox alive. End of day 1900 (temp 82 wind and clouds 0).

Monitor Checklist

General	Yes	No	N/A	Comments Attach Supplemental Report if needed
Workspace limits verified and properly marked?	X			
All activities within approved workspace limits?	X			
Only approved access roads utilized for ingress and egress?	X			
Access road signs in place?	X			
Trash and debris contained and disposed of in proper manner?	X			
Topsoil segregated properly?	X			
Topsoil segregation barriers maintained?			X	
All crew on site displaying hard-hat decals from WEAP training?	X			
Speed limit observed by all project personnel?	X			
Biological Issues	**Yes**	**No**	**N/A**	**Comments** Attach Supplemental Report if needed
Work area cleared by BM prior to construction activity beginning?	X			
Any desert tortoise or other T&E species encountered? If so, note species in comments and attach wildlife incident data form.		X		
Tortoise exclusionary fence and/or ramps intact?	X			
Any nesting birds observed? Note species (if known) and location.	X			shrike in western conservation area
Common Ravens Present? If yes, note number and activity.	X			1 today
All ESAs and other bio-related exclusion areas marked and avoided?	X			

Additional Notes:

Genesis Solar Energy Project

Biological Monitor (BM) Daily Report — Date 03/16/2012

Monitor: Eric German
Weather Conditions: clear
High Temp.: 85 Low Temp.:

Start Time: 0600 Stop Time: 1900
Attachments:
Photographs: none

Sites Monitored

Underline: **Plant Site** **Access Road** **Gas Line** **Transmission Line** **Other (explain)**

Activity Log:

0600 Survey/monitor access road. Most vehicles appeared to be obeying speed limit.
0630 Safety meeting with bio.
0645 Survey at Northwest corner of Unit 1. Surveyed for nesting birds, none observed. House finches seen.
0930 Monitor Shrike nest for baseline data. Male seen.
1130 Check Trenches and pitfalls. No findings. Assigned monitor to check perimeter fence. Fence is in good repair.
1330 Computer and Noise Meter Training.
1600 Kit Fox telemetry data summarized and sent to CDFG
1730 Complete Daily

Monitor Checklist

General	Yes	No	N/A	Comments Attach Supplemental Report if needed
Workspace limits verified and properly marked?	√			
All activities within approved workspace limits?	x			
Only approved access roads utilized for ingress and egress?	√			
Access road signs in place?	√			
Trash and debris contained and disposed of in proper manner?		x		Ravens seen eating food wrappers
Topsoil segregated properly?	√			
Topsoil segregation barriers maintained?			x	
All crew on site displaying hard-hat decals from WEAP training?	√			all observed crews had decals
Speed limit observed by all project personnel?	√			
Biological Issues	**Yes**	**No**	**N/A**	**Comments** Attach Supplemental Report if needed
Work area cleared by BM prior to construction activity beginning?			x	
Any desert tortoise or other T&E species encountered? If so, note species in comments and attach wildlife incident data form.		x		
Tortoise exclusionary fence and/or ramps intact?	√			
Any nesting birds observed? Note species (if known) and location.	x			Loggerhead Shrike, CSAA
Common Ravens Present? If yes, note number and activity.	x			8 flying toward site, 6 eating human food
All ESAs and other bio-related exclusion areas marked and avoided?	√			

Additional Notes: Ravens were seen eating food wrappers. Per client, new bins have been ordered.

Genesis Solar Energy Project

Biological Monitor (BM) Daily Report — Date 3/ 16/2012

Monitor: Matt Kedziora
Weather Conditions: sun AM, 50% clouds and wind in PM
High Temp.: 80F Low Temp.: 55F

Start Time: 0535 Stop Time: 1624
Attachments:
Photographs: 1

Sites Monitored

Circle One: **Plant Site** **Access Road** **Gas Line** **Transmission Line** **Other (explain)**

Activity Log: 0535 arrive at guard shack and receive both fox (# 1195 and 0454) on receiver at 0538. Water truck returning to Guard Shack at 0540. Proceed to main gate at DT guard plate and see dead kangaroo rat. 0615 arrive NW corner for bird nest survey, start with Eric at 0630. See HOFI, RTHA, CORA, LOSH, end 0912. At 0920 begin fence perimeter check counter clockwise and along way change out all camera cards (8 west-change batteries, Mid-south, S. fence, 1KMS, Guard den at 1120-finish.) Back to DT fence sheck, counterclockwise, from main gate to NW corner. Check power block grid digs in Unit 2 section 3. Also check rebars laydown areas and water towers before finishing efnce at 1400. Then to office to finish reports and finalize week. End 1624, (80F, wind 7-10 MPH, cloud 50%)

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General	Yes	No	N/A	Comments Attach Supplemental Report if needed
Workspace limits verified and properly marked?	x			
All activities within approved workspace limits?	x			
Only approved access roads utilized for ingress and egress?	x			
Access road signs in place?	x			
Trash and debris contained and disposed of in proper manner?		x		
Topsoil segregated properly?			x	
Topsoil segregation barriers maintained?			x	
All crew on site displaying hard-hat decals from WEAP training?	x			
Speed limit observed by all project personnel?	x			
Biological Issues	**Yes**	**No**	**N/A**	**Comments** Attach Supplemental Report if needed
Work area cleared by BM prior to construction activity beginning?			x	
Any desert tortoise or other T&E species encountered? If so, note species in comments and attach wildlife incident data form.		x		
Tortoise exclusionary fence and/or ramps intact?	x			
Any nesting birds observed? Note species (if known) and location	X			LOSH- CSAA
Common Ravens Present? If yes, note number and activity	x			5 seen throughout day- flying
All ESAs and other bio-related exclusion areas marked and avoided?	x			

Additional Notes: species seen:HOFI, RTHA, LOSH, CORA

Figure 1. Dead kangaroo rat found on road, 0555.

Genesis Solar Energy Project

Biological Monitor (BM) Daily Report Date March/19/2012

Monitor: Rob Conohan
Weather Conditions: _Sunny, light breeze to moderate winds
High Temp.: 75F Low Temp.: low 35

Start Time: 7:00am___ Stop Time: 5:30 pm_
Attachments:_____
Photographs: See Below

Sites Monitored

Circle One: **Plant Site**_____**Access Road** **Gas Line** **Transmission Line** **Other (explain)**

Activity Log:

Met DB at guard entrance to go over the days activities. Acquired signals of the two KF at the entrance to the site. Examined the East, North and Western tortoise fences to look for damage from the recent rain event, none observed. Pair of LOSH observed north of the known nest. Conducted avian nesting survey within 200ft outside of South and West fence in Unit 1. SAPH, HOLA and OCWA observed during the course of the surveys. Birds were not observed in any nesting behavior. Conducted Clearance survey in Unit 1 to look for KF, and BUOW burrows as well as nesting birds. Clearance was conducted along the southern side of Block 8, and the vegetated areas in Blocks 4 and 2. Replaced memory cards in KF trail cameras. Looked for ponding water at well pad 2, none observed.

Monitor Checklist

General	Yes	No	N/A	Comments Attach Supplemental Report if needed
Workspace limits verified and properly marked?	x			
All activities within approved workspace limits?	x			
Only approved access roads utilized for ingress and egress?			x	
Access road signs in place?			x	
Trash and debris contained and disposed of in proper manner?		x		Trash along north fence in Unit 1 and offsite
Topsoil segregated properly?			x	
Topsoil segregation barriers maintained?			x	
All crew on site displaying hard-hat decals from WEAP training?	x			
Speed limit observed by all project personnel?	x			
Biological Issues	**Yes**	**No**	**N/A**	**Comments** Attach Supplemental Report if needed
Work area cleared by BM prior to construction activity beginning?	x			
Any desert tortoise or other T&E species encountered? If so, note Species in comments and attach wildlife incident data form.		x		
Tortoise exclusionary fence and/or ramps intact?	x			
Any nesting birds observed? Note species (if known) and location.		x		
Common Ravens Present? If yes, note number and activity.	x		4	foraging in Unit 1 work Area
All ESAs and other bio-related exclusion areas marked and avoided?	x			

Additional Notes:

Genesis Solar Energy Project

Biological Monitor (BM) Daily Report — Date 03/19/2012

Monitor: Eric German
Weather Conditions: clear
High Temp.: 61 Low Temp.: 56

Start Time: 0600 Stop Time: 1815
Attachments:
Photographs: none

Sites Monitored

Underline: **Plant Site** **Access Road** **Gas Line** **Transmission Line** **Other (explain)**

Activity Log:

0600 Survey/monitor access road. Most vehicles appeared to be obeying speed limit.
0700 Go over telemetry with bio
0715 Safety meeting with bio (onsite).
0810 Inspect Perimeter Fence. Fence appears in good repair.
0900 Walk through PreConstruction Check of Unit 1 Block 4. No findings
0940 200' buffer below Unit 1, blocks 4 and 8. Says Phoebe, Warbler, Horned Larks – no nests or nesting behavior
1220 (informed 1120) removed KRat from footing and released. Inspect trenches and pitfalls
1300 Inspect trenches and pitfalls, Walk thru Preconstruction Check Unit 1 block 2. No findings.
Survey at Northwest corner of Unit 1. Surveyed for nesting birds, none observed. House finches seen.
1400 Meeting
1500 released sidewinder outside fence.
1545 Meeting
1630 Review expectations with Bio.
1800Daily.

Monitor Checklist

General	Yes	No	N/A	Comments Attach Supplemental Report if needed
Workspace limits verified and properly marked?	√			
All activities within approved workspace limits?	x			
Only approved access roads utilized for ingress and egress?	√			
Access road signs in place?	√			
Trash and debris contained and disposed of in proper manner?		x		Trash along North Fence following winds.
Topsoil segregated properly?	√			
Topsoil segregation barriers maintained?			x	
All crew on site displaying hard-hat decals from WEAP training?	√			all observed crews had decals
Speed limit observed by all project personnel?	√			Spacing and speed looked good.

Biological Issues	Yes	No	N/A	Comments Attach Supplemental Report if needed
Work area cleared by BM prior to construction activity beginning?	x			Unit 1, blocks 4 and 2 no construction
Any desert tortoise or other T&E species encountered? If so, note species in comments and attach wildlife incident data form.		x		
Tortoise exclusionary fence and/or ramps intact?	√			Perimeter check due to weekend rain.
Any nesting birds observed? Note species (if known) and location.	x			Loggerhead Shrike, CSAA
Common Ravens Present? If yes, note number and activity.	x			4 on ground, 2 flying
All ESAs and other bio-related exclusion areas marked and avoided?	√			

Additional Notes: Perimter fence was inspected. The fence appeared intact following rains.

Genesis Solar Energy Project

Biological Monitor (BM) Daily Report — Date March/20/2012

Monitor: Rob Conohan
Weather Conditions: _Sunny, light breeze to moderate winds
High Temp.: 76F Low Temp.: low 40

Start Time: 5:45am___ Stop Time: 3:30 pm_
Attachments:_____
Photographs:

Sites Monitored

Circle One: **Plant Site** **Access Road** **Gas Line** **Transmission Line** **Other (explain)**

Activity Log:

Drove access road at 5:55am to look for roadkill and monitor speeding. Did two passes along paved section of access road. No speeding observed. Meet with DB to go over the days activities. Visited Largo Yards to inspect trenching activities and look for wildlife, none observed in trenches. Checked water towers to look for ponding water. Food waste (orange and apple peals) was observed at the base of the water tower. Two CORA observed at the water. Removed banded gecko from fill area north of the common area. Tail was missing but otherwise seemed to be in good shape. Relocated the animal offsite. Checked access road for wildlife mortalities after lunch. Observed 1 juvenile RTHA, and two CORA observed perched on power poles. Removed memory cards in KF Dens and replaced with blank ones.

Monitor Checklist

General	Yes	No	N/A	Comments Attach Supplemental Report if needed
Workspace limits verified and properly marked?	x			
All activities within approved workspace limits?	x			
Only approved access roads utilized for ingress and egress?			x	
Access road signs in place?			x	
Trash and debris contained and disposed of in proper manner?		x		Trash along north fence in Unit 1 and offsite
Topsoil segregated properly?			x	
Topsoil segregation barriers maintained?			x	
All crew on site displaying hard-hat decals from WEAP training?	x			
Speed limit observed by all project personnel?	x			
Biological Issues	**Yes**	**No**	**N/A**	**Comments** Attach Supplemental Report if needed
Work area cleared by BM prior to construction activity beginning?	x			
Any desert tortoise or other T&E species encountered? If so, note Species in comments and attach wildlife incident data form.		x		
Tortoise exclusionary fence and/or ramps intact?	x			
Any nesting birds observed? Note species (if known) and location.		x		
Common Ravens Present? If yes, note number and activity.	x		2	foraging in Unit 1 work Area 2 on Rd
All ESAs and other bio-related exclusion areas marked and avoided?	x			

Additional Notes:

Genesis Solar Energy Project

Biological Monitor (BM) Daily Report — Date 03/20/2012

Monitor: Eric German
Weather Conditions: clear
High Temp.: Low Temp.:

Start Time: 0650 Stop Time: 1830
Attachments:
Photographs: none

Sites Monitored

Underline: **Plant Site** **Access Road** **Gas Line** **Transmission Line** **Other (explain)**

Activity Log:

0650 Survey/monitor access road. Spoke with guards about checking under vehicles.
0705 Removed Road Kill from road, Kangaroo Rat.
0845 Trench, Pitfall and overall site Inspection. Water seen ponding beneath water tanks. Client cleaned up. Also garbage in bucket. Client cleaned up. No findings in trenches or pitfalls.
1000 meeting with construction leads
1100 files and office
1330 Noise meter and sound testing by scrapers. LEQ 72.8, LEQ min 51.6, LEQ max 82.5 at 200' from activity.
1450 Pitfall and Trench check.
1545 Work on abbreviated WEAP.
1800 fill buggy.

Monitor Checklist

General	Yes	No	N/A	Comments Attach Supplemental Report if needed
Workspace limits verified and properly marked?	√			
All activities within approved workspace limits?	x			
Only approved access roads utilized for ingress and egress?	√			
Access road signs in place?	√			
Trash and debris contained and disposed of in proper manner?		x		Trash along North Fence following winds.
Topsoil segregated properly?	√			
Topsoil segregation barriers maintained?			x	
All crew on site displaying hard-hat decals from WEAP training?	√			all observed crews had decals
Speed limit observed by all project personnel?	√			Spacing and speed looked good.

Biological Issues	Yes	No	N/A	Comments Attach Supplemental Report if needed
Work area cleared by BM prior to construction activity beginning?	x			
Any desert tortoise or other T&E species encountered? If so, note species in comments and attach wildlife incident data form.		x		
Tortoise exclusionary fence and/or ramps intact?	√			
Any nesting birds observed? Note species (if known) and location.	x			Loggerhead Shrike, CSAA
Common Ravens Present? If yes, note number and activity.	x			4 on ground, 2 flying
All ESAs and other bio-related exclusion areas marked and avoided?	√			

Additional Notes: More sound testing will be performed tomorrow.

Genesis Solar Energy Project

Biological Monitor (BM) Daily Report Date March/21/2012

Monitor: Rob Conohan
Weather Conditions: _Sunny, light breeze to moderate winds
High Temp.: 78F Low Temp.: low 45

Start Time: 6:00am___ Stop Time: 2:30 pm_
Attachments:_____ _____
Photographs:

Sites Monitored

Circle One: **Plant Site** **Access Road** **Gas Line** **Transmission Line** **Other (explain)**

Activity Log:

Signals from Male and Female Kit Fox transmitters were heard from the vicinity of the guard gate at 6:10. Drove access road at 6:10am to look for roadkill and monitor speeding. Did two passes along paved section of access road. No speeding observed. Removed dead desert Kangaroo Rat from the access road. Checked trenching activates in Largo Yard. No wildlife observed. Replaced memory cards on all trail cameras. Monitored fill area north of common areas. Monitored activity at KF Den near guard shack. Based on telemetry signals, Male and Female in same area of den complex at 1:15pm.

Monitor Checklist

General	Yes	No	N/A	Comments Attach Supplemental Report if needed
Workspace limits verified and properly marked?	x			
All activities within approved workspace limits?	x			
Only approved access roads utilized for ingress and egress?			x	
Access road signs in place?			x	
Trash and debris contained and disposed of in proper manner?	x			
Topsoil segregated properly?			x	
Topsoil segregation barriers maintained?			x	
All crew on site displaying hard-hat decals from WEAP training?	x			
Speed limit observed by all project personnel?	x			
Biological Issues	**Yes**	**No**	**N/A**	**Comments** Attach Supplemental Report if needed
Work area cleared by BM prior to construction activity beginning?	x			
Any desert tortoise or other T&E species encountered? If so, note Species in comments and attach wildlife incident data form.		x		
Tortoise exclusionary fence and/or ramps intact?	x			
Any nesting birds observed? Note species (if known) and location.		x		
Common Ravens Present? If yes, note number and activity.	x		4	foraging in Unit 1 work Area 2 on Rd
All ESAs and other bio-related exclusion areas marked and avoided?	x			

Additional Notes:

Genesis Solar Energy Project

Biological Monitor (BM) Daily Report — Date 03/21/2012

Monitor: Eric German
Weather Conditions: clear
High Temp.: Low Temp.:

Start Time: 0650 Stop Time: 1830
Attachments:
Photographs: none

Sites Monitored

Underline: **Plant Site** **Access Road** **Gas Line** **Transmission Line** **Other (explain)**

Activity Log:

0650 Survey/monitor access road.
0815 Removed Kangaroo Rat from Power Block 2. And inspect site.
1000 Meeting
1100 Short meeting with Cody.
1130 Trench, Pitfall and overall site Inspection. No findings in trenches or pitfalls. Noted that garbage was being cleaned up at North Fence.
1400 Meeting
1430 Work on abbreviated WEAP and review.
1800 Complete Daily.

Monitor Checklist

General	Yes	No	N/A	Comments Attach Supplemental Report if needed
Workspace limits verified and properly marked?	√			
All activities within approved workspace limits?	x			
Only approved access roads utilized for ingress and egress?	√			
Access road signs in place?	√			
Trash and debris contained and disposed of in proper manner?		x		North Fence being cleaned.
Topsoil segregated properly?	√			
Topsoil segregation barriers maintained?			x	
All crew on site displaying hard-hat decals from WEAP training?	√			all observed crews had decals
Speed limit observed by all project personnel?	√			Spacing and speed looked good.

Biological Issues	Yes	No	N/A	Comments Attach Supplemental Report if needed
Work area cleared by BM prior to construction activity beginning?	x			
Any desert tortoise or other T&E species encountered? If so, note species in comments and attach wildlife incident data form.		x		
Tortoise exclusionary fence and/or ramps intact?	√			
Any nesting birds observed? Note species (if known) and location.	x			Loggerhead Shrike, CSAA
Common Ravens Present? If yes, note number and activity.	x			8 raven sightings , flying/foraging.
All ESAs and other bio-related exclusion areas marked and avoided?	√			

Additional Notes:

Genesis Solar Energy Project

Biological Monitor (BM) Daily Report Date March/23/2012

Monitor: Rob Conohan
Weather Conditions: _Sunny, light breeze to moderate winds
High Temp.: 83 Low Temp.: low 58

Start Time: 6:00am___ Stop Time: 3:30 pm_
Attachments:_____
Photographs:

Sites Monitored

Circle One: **Plant Site** **Access Road** **Gas Line** **Transmission Line** **Other (explain)**

Activity Log:

Conducted radio tracking of KF at gate entrance. Male and Female were heard in the same area at 0610hrs. Monitored speeding on access road. No speeding observed. Monitored access road and guard shack area. Replaced all memory cards in cameras. Conducted clearance survey in Block 5 Unit 1. Surveys conducted from 11:25-1:30. Temperature 81F. 4 HOLA observed calling and flying overhead. No breeding activity observed. Monitored LOSH nest for approx 30 min. Female observed from a distance on nest. Walked North end of Block 4. This area is highly disturbed with sparse vegetation. I surveyed the south end of the block 4 SW corner contains same dune habitat and MTFL observed fleeing offsite. Surveyed East side of Blocks 2,3. No sensative species observed. Surveyed area around guard shack to look for wildlife around vehicles. None observed.

Monitor Checklist

General	Yes	No	N/A	Comments Attach Supplemental Report if needed
Workspace limits verified and properly marked?	x			
All activities within approved workspace limits?	x			
Only approved access roads utilized for ingress and egress?			x	
Access road signs in place?			x	
Trash and debris contained and disposed of in proper manner?	x			
Topsoil segregated properly?			x	
Topsoil segregation barriers maintained?			x	
All crew on site displaying hard-hat decals from WEAP training?	x			
Speed limit observed by all project personnel?	x			
Biological Issues	**Yes**	**No**	**N/A**	**Comments** Attach Supplemental Report if needed
Work area cleared by BM prior to construction activity beginning?	x			
Any desert tortoise or other T&E species encountered? If so, note Species in comments and attach wildlife incident data form.		x		
Tortoise exclusionary fence and/or ramps intact?	x			
Any nesting birds observed? Note species (if known) and location.		x		
Common Ravens Present? If yes, note number and activity.	x		3	foraging in Unit 1 work Area 2 on Rd
All ESAs and other bio-related exclusion areas marked and avoided?	x			

Additional Notes:

Genesis Solar Energy Project

Biological Monitor (BM) Daily Report — Date 03/22/2012

Monitor: Eric German
Weather Conditions: clear
High Temp.: Low Temp.:

Start Time: 0650 Stop Time: 1900
Attachments:
Photographs: attached

Sites Monitored

Underline: **Plant Site** **Access Road** **Gas Line** **Transmission Line** **Other (explain)**

Activity Log:

Checked under parked vehicles parked overnight near guard shack.
While checking I noted that guards would not allow a truck carrying a dirty dozer on site.
Inspected laydown yards, trenches and pitfalls, (all within fenced area). No findings.
Noted that caisson area was very clean and told foreman.
Checked water tanks for ponding. No ponding observed.
Had bio inspect and monitor access road and change kit fox camera cards.
Performed nesting bird surveys in Unit 1, block 4 and part of block 3.
Bleeding of water pump line to Water Fill Tank created ponding. Ponding was cleaned up in 45 minutes. Ponding was also noted at Arizona Crossing.

Monitor Checklist

General	Yes	No	N/A	Comments Attach Supplemental Report if needed
Workspace limits verified and properly marked?	√			
All activities within approved workspace limits?	x			
Only approved access roads utilized for ingress and egress?	√			
Access road signs in place?	√			
Trash and debris contained and disposed of in proper manner?		x		Noted that work sites are much cleaner.
Topsoil segregated properly?	√			
Topsoil segregation barriers maintained?			x	
All crew on site displaying hard-hat decals from WEAP training?	√			all observed crews had decals
Speed limit observed by all project personnel?	√			Speed limit and spacing appeared good.

Biological Issues	Yes	No	N/A	Comments Attach Supplemental Report if needed
Work area cleared by BM prior to construction activity beginning?			x	
Any desert tortoise or other T&E species encountered? If so, note species in comments and attach wildlife incident data form.		x		
Tortoise exclusionary fence and/or ramps intact?	√			
Any nesting birds observed? Note species (if known) and location.	x			Loggerhead Shrike, CSAA
Common Ravens Present? If yes, note number and activity.	x			12 raven sightings , flying/foraging.
All ESAs and other bio-related exclusion areas marked and avoided?	√			

Additional Notes: A Notice to Resume Construction Activities was received for Unit 1, block 4 and portions of blocks 2 and 3. Nesting bird surveys were reinitiated in the area.

Ponding created by bleeding pipe for moving water tank.

Ponding created by bleed cleaned up.

Ponding at Arizona Crossing. Caused by rain event.

Genesis Solar Energy Project

Biological Monitor (BM) Daily Report Date March/24/2012

Monitor: Rob Conohan
Weather Conditions: _Sunny, light breeze to moderate winds
High Temp.: 82 Low Temp.: low 55

Start Time: 6:00am___ Stop Time: 4:30 pm_
Attachments:_____
Photographs:

Sites Monitored

Circle One: **Plant Site** **Access Road** **Gas Line** **Transmission Line** **Other (explain)**

Activity Log:

Conducted radio tracking of KF at gate entrance. Male and Female were heard in the same area. Monitored speeding on access road. No speeding observed. Monitored access road and guard shack area. Attended SUKUT meeting. Replaced all memory cards in cameras. Conducted clearance survey within 200ft buffer outside of Block 4 Unit 1. No breeding activity observed. Updated KF and Avian Reports from the weeks data. Conducted search for KF around 1KMS. One individual was observed utilizing the den. Search was abandoned so as to not disturb the observed KF.

Monitor Checklist

General	Yes	No	N/A	Comments Attach Supplemental Report if needed
Workspace limits verified and properly marked?	x			
All activities within approved workspace limits?	x			
Only approved access roads utilized for ingress and egress?			x	
Access road signs in place?			x	
Trash and debris contained and disposed of in proper manner?	x			
Topsoil segregated properly?			x	
Topsoil segregation barriers maintained?			x	
All crew on site displaying hard-hat decals from WEAP training?	x			
Speed limit observed by all project personnel?	x			
Biological Issues	**Yes**	**No**	**N/A**	**Comments** Attach Supplemental Report if needed
Work area cleared by BM prior to construction activity beginning?	x			
Any desert tortoise or other T&E species encountered? If so, note Species in comments and attach wildlife incident data form.		x		
Tortoise exclusionary fence and/or ramps intact?	x			
Any nesting birds observed? Note species (if known) and location.		x		
Common Ravens Present? If yes, note number and activity.	x		4	foraging in Unit 1
All ESAs and other bio-related exclusion areas marked and avoided?	x			

Additional Notes:

Genesis Solar Energy Project

Biological Monitor (BM) Daily Report — Date 03/23/2012

Monitor: Eric German
Weather Conditions: clear
High Temp.: 84 Low Temp.:

Start Time: 0630 Stop Time: 1730
Attachments:
Photographs: none

Sites Monitored

Underline: **Plant Site** **Access Road** **Gas Line** **Transmission Line** **Other (explain)**

Activity Log:

Surveyed/monitored access road. 3 road-kill MFTL were found. Construction Wildlife Incident Forms were completed and sent to CDFG and USFWS.
Completed nesting bird surveys in buffer around Unit 1, block 4.
Gathered sound data in vicinity of scrapers.
Checked trenches and pitfalls. No findings.
Water ponding was not observed on site. Arizona crossing ponding discussed in 03222012 appears to have been a result of rain event and not project watering activities.
Reviewed Kit Fox telemetry and camera monitoring forms and sent to agencies.

Monitor Checklist

General	Yes	No	N/A	Comments Attach Supplemental Report if needed
Workspace limits verified and properly marked?	√			
All activities within approved workspace limits?	x			
Only approved access roads utilized for ingress and egress?	√			
Access road signs in place?	√			
Trash and debris contained and disposed of in proper manner?		x		Self closing containers have been ordered.
Topsoil segregated properly?	√			
Topsoil segregation barriers maintained?			x	
All crew on site displaying hard-hat decals from WEAP training?	√			all observed crews had decals
Speed limit observed by all project personnel?	√			Speed limit and spacing appeared good.

Biological Issues	Yes	No	N/A	Comments Attach Supplemental Report if needed
Work area cleared by BM prior to construction activity beginning?			x	
Any desert tortoise or other T&E species encountered? If so, note species in comments and attach wildlife incident data form.		x		
Tortoise exclusionary fence and/or ramps intact?	√			
Any nesting birds observed? Note species (if known) and location.	x			Loggerhead Shrike, CSAA
Common Ravens Present? If yes, note number and activity.	x			8 raven sightings , flying/foraging.
All ESAs and other bio-related exclusion areas marked and avoided?	√			

Additional Notes: Sent nesting bird survey results to ECM.

Genesis Solar Energy Project

Biological Monitor (BM) Daily Report — Date 03/24/2012

Monitor: Eric German
Weather Conditions: partly overcast
High Temp.: Low Temp.:

Start Time: 0730 Stop Time: 1045
Attachments:
Photographs: none

Sites Monitored

Underline: **Plant Site** **Access Road** **Gas Line** **Transmission Line** **Other (explain)**

Activity Log:

Surveyed/monitored access road. No findings. Speed limits appeared to be observed.
Inspected trenches and pitfalls. No findings
Watering activities no ponding observed at site due to project watering activities.

Monitor Checklist

General	Yes	No	N/A	Comments Attach Supplemental Report if needed
Workspace limits verified and properly marked?	√			
All activities within approved workspace limits?	x			
Only approved access roads utilized for ingress and egress?	√			
Access road signs in place?	√			
Trash and debris contained and disposed of in proper manner?		x		Self closing containers have been ordered.
Topsoil segregated properly?	√			
Topsoil segregation barriers maintained?			x	
All crew on site displaying hard-hat decals from WEAP training?	√			all observed crews had decals
Speed limit observed by all project personnel?	√			Speed limit and spacing appeared good.

Biological Issues	Yes	No	N/A	Comments Attach Supplemental Report if needed
Work area cleared by BM prior to construction activity beginning?			x	
Any desert tortoise or other T&E species encountered? If so, note species in comments and attach wildlife incident data form.		x		
Tortoise exclusionary fence and/or ramps intact?	√			
Any nesting birds observed? Note species (if known) and location.	x			Loggerhead Shrike, CSAA
Common Ravens Present? If yes, note number and activity.	x			4 raven sightings , flying/foraging.
All ESAs and other bio-related exclusion areas marked and avoided?	√			

Additional Notes:

Genesis Solar Energy Project

Biological Monitor (BM) Daily Report — Date 03/26/2012

Monitor: Eric German
Weather Conditions: partly overcast
High Temp.: Low Temp.:

Start Time: 0545 Stop Time: 1800
Attachments:
Photographs: one attached

Sites Monitored

Underline: **Plant Site** **Access Road** **Gas Line** **Transmission Line** **Other (explain)**

Activity Log:

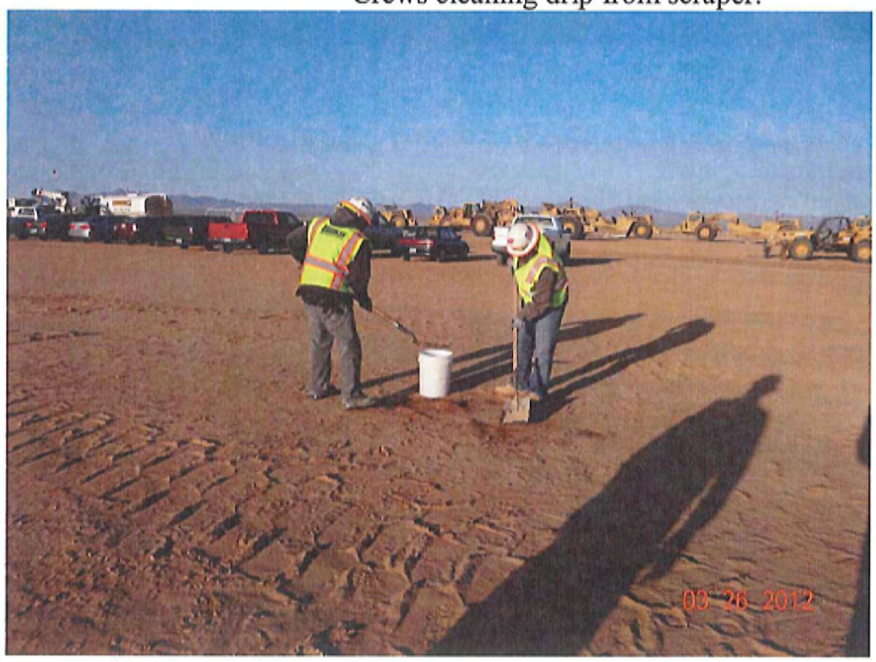
Surveyed/monitored access road. No findings. Speed limits appeared to be observed.
Crews observed cleaned up contaminated soil beneath and around scrapers.
Inspected trenches and pitfalls. No findings. Tortoise gate at entrance of Plant Site inspected. Appears to be in good repair.
Watering activities no ponding observed at site due to project watering activities. Rainfall event water is gone from Arizona Crossing. Arizona crossing checked for Desert Spadefoot toad. No animals or footprints observed.
Changed camera cards at kit fox camera monitoring sites.
Worked with Bio-Monitor, oriented to site, all of above performed with monitor.

Monitor Checklist

General	Yes	No	N/A	Comments Attach Supplemental Report if needed
Workspace limits verified and properly marked?	√			
All activities within approved workspace limits?	x			
Only approved access roads utilized for ingress and egress?	√			
Access road signs in place?	√			
Trash and debris contained and disposed of in proper manner?		x		Self closing containers have been ordered.
Topsoil segregated properly?	√			
Topsoil segregation barriers maintained?			x	
All crew on site displaying hard-hat decals from WEAP training?	√			all observed crews had decals
Speed limit observed by all project personnel?	√			Speed limit and spacing appeared good.
Biological Issues	**Yes**	**No**	**N/A**	**Comments** Attach Supplemental Report if needed
Work area cleared by BM prior to construction activity beginning?			x	Activity in previously disturbed area
Any desert tortoise or other T&E species encountered? If so, note species in comments and attach wildlife incident data form.		x		
Tortoise exclusionary fence and/or ramps intact?	√			
Any nesting birds observed? Note species (if known) and location.	x			Loggerhead Shrike, CSAA
Common Ravens Present? If yes, note number and activity.	x			6 raven sightings , flying/foraging.
All ESAs and other bio-related exclusion areas marked and avoided?	√			

Additional Notes:
Spoke with Largo about doing a good job observing speed limits in morning and thanked them for keeping a clean work area.

Crews cleaning drip from scraper.



Genesis Solar - BM Daily Summary Report (Part 1 of 4)

AECOM

Monitor	Date	Start Time	End Time	Sites Monitored	Start Temp	Midday Temp	End Temp	Weather	Cloud Cover	Precipitation	Workspace limits verified and properly marked?	Comment	All activities within approved workspace limits?	Comment	Only approved access roads utilized for ingress and egress?	Comment
Mike Ireland	3/26/2012	5:45:00 AM	3:50:00 PM	Access Road, Plant Site	56	68	79	Sunny	5%	None	YES	N/A	YES	N/A	YES	N/A
Eric German	3/27/2012	6:00:00 AM	5:45:00 PM	Access Road, Plant Site	50	78	78	Sunny	10%	None	YES	N/A	YES	N/A	YES	N/A
Mike Ireland	3/27/2012	5:35:00 AM	4:15:00 PM	Plant Site, Access Road	48	72	78	Sunny	0%	None	YES	N/A	YES	N/A	YES	N/A
Eric German	3/28/2012	6:30:00 AM	2:45:00 PM	Access Road, Plant Site	48	78	85	Sunny	0%	None	YES	N/A	YES	N/A	YES	N/A
Mike Ireland	3/28/2012	5:35:00 AM	2:45:00 PM	Plant Site, Access Road	48	66	85	Sunny	0%	None	YES	N/A	YES	N/A	YES	N/A
Eric German	3/29/2012	6:30:00 AM	6:15:00 PM	Plant Site, Access Road	68	82	88	Sunny	10%	None	YES	N/A	YES	N/A	YES	N/A
Mike Ireland	3/29/2012	5:40:00 AM	4:40:00 PM	Plant Site, Access Road	60	76	88	Sunny	15%	None	YES	N/A	YES	N/A	YES	N/A
Eric German	3/30/2012	6:10:00 AM	5:00:00 PM	Plant Site, Access Road	63	76	84	Partly Sunny	25%	None	YES	N/A	YES	N/A	YES	N/A
Mike Ireland	3/30/2012	5:35:00 AM	2:30:00 PM	Plant Site, Access Road	61	76	97	Partly Sunny	40%	None	YES	N/A	YES	N/A	YES	N/A

Genesis Solar - BM Daily Summary Report (Part 2 of 4)

AECOM

Monitor	Date	Start Time	End Time	Sites Monitored	Access road signs in place?	Comment	Trash and debris contained and disposed of in proper manner?	Comment	Topsoil segregated properly?	Comment	Topsoil segregation barriers maintained?	Comment	All crew on site displaying hard-hat decals from WEAP training?	Comment
Mike Ireland	3/26/2012	5:45:00 AM	3:50:00 PM	Access Road, Plant Site	YES	N/A	NO	Small amounts of trash in trenches and along fences.	YES	N/A	N/A	N/A	YES	N/A
Eric German	3/27/2012	6:00:00 AM	5:45:00 PM	Access Road, Plant Site	YES	N/A	NO	Client is in the process of obtaining self closing trash containers.	YES	N/A	N/A	N/A	YES	Observed hard hats had decals.
Mike Ireland	3/27/2012	5:35:00 AM	4:15:00 PM	Plant Site, Access Road	YES	N/A	YES	N/A	YES	N/A	N/A	N/A	YES	N/A
Eric German	3/28/2012	6:30:00 AM	2:45:00 PM	Access Road, Plant Site	YES	N/A	NO	Client is in the process of obtaining self closing trash containers.	YES	N/A	N/A	N/A	YES	Observed hard hats had decals.
Mike Ireland	3/28/2012	5:35:00 AM	2:45:00 PM	Plant Site, Access Road	YES	N/A	YES	N/A	YES	N/A	N/A	N/A	YES	N/A
Eric German	3/29/2012	6:30:00 AM	6:15:00 PM	Plant Site, Access Road	YES	N/A	NO	Client in process of obtaining self closing containers.	YES	N/A	N/A	N/A	YES	Observed hard hats had decals
Mike Ireland	3/29/2012	5:40:00 AM	4:40:00 PM	Plant Site, Access Road	YES	N/A	YES	N/A	YES	N/A	N/A	N/A	YES	N/A
Eric German	3/30/2012	6:10:00 AM	5:00:00 PM	Plant Site, Access Road	YES	N/A	NO	Client in process of obtaining more containers.	YES	N/A	N/A	N/A	YES	Observed hard hats had stickers
Mike Ireland	3/30/2012	5:35:00 AM	2:30:00 PM	Plant Site, Access Road	YES	N/A	YES	N/A	YES	N/A	N/A	N/A	YES	N/A

Genesis Solar - BM Daily Summary Report (Part 3 of 4)

AECOM

Monitor	Date	Start Time	End Time	Sites Monitored	Speed limit observed by all project personnel?	Comment	Work area cleared by BM prior to construction activity beginning?	Comment	Any desert tortoise or other T&E species encountered?	Comment	Tortoise exclusionary fence and/or ramps intact?	Comment	Any nesting birds observed?	Comment
Mike Ireland	3/26/2012	5:45:00 AM	3:50:00 PM	Access Road, Plant Site	YES	N/A	YES	N/A	NO	N/A	YES	N/A	NO	N/A
Eric German	3/27/2012	6:00:00 AM	5:45:00 PM	Access Road, Plant Site	YES	A vehicle was reported to be passing other vehicles.	YES	Work in previously disturbed areas. Work is scheduled in new area tomorrow area surveyed for preconstruction. Preconstruction survey will be repeated tomorrow.	NO	N/A	YES	N/A	YES	LOSH, Ironwood in CSAA
Mike Ireland	3/27/2012	5:35:00 AM	4:15:00 PM	Plant Site, Access Road	YES	N/A	YES	N/A	NO	N/A	YES	N/A	NO	N/A
Eric German	3/28/2012	6:30:00 AM	2:45:00 PM	Access Road, Plant Site	YES	A vehicle was reported to be passing other vehicles.	YES	NTR area surveyed in morning prior to watering.	NO	N/A	YES	N/A	YES	LOSH, Ironwood in CSAA. Seen at Ironwood offsite.
Mike Ireland	3/28/2012	5:35:00 AM	2:45:00 PM	Plant Site, Access Road	YES	N/A	YES	N/A	NO	N/A	YES	N/A	NO	N/A
Eric German	3/29/2012	6:30:00 AM	6:15:00 PM	Plant Site, Access Road	YES	N/A	YES	Unit 1 Block 8 southern strip	NO	N/A	YES	Completed weekly perimeter fence check. No findings.	YES	Loggerhead Shrike in CSAA.
Mike Ireland	3/29/2012	5:40:00 AM	4:40:00 PM	Plant Site, Access Road	YES	N/A	YES	N/A	NO	N/A	YES	N/A	NO	N/A
Eric German	3/30/2012	6:10:00 AM	5:00:00 PM	Plant Site, Access Road	NO	Report of a vehicle exceeding speed limit. All observed vehicles	YES	Unit 1 blocks 2,3, and 4	NO	N/A	YES	N/A	YES	LOSH in CSAA

Genesis Solar - BM Daily Summary Report (Part 3 of 4)

AECOM

						following speed limit.								
Mike Ireland	3/30/2012	5:35:00 AM	2:30:00 PM	Plant Site, Access Road	YES	N/A	YES	N/A	NO	N/A	YES	N/A	NO	N/A

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Genesis Solar - BM Daily Summary Report (Part 4 of 4)

AECOM

Monitor	Date	Start Time	End Time	Sites Monitored	Common Ravens Present?	Comment	All ESAs and other bio-related exclusion areas marked and avoided?	Comment	Additional Comments	Activities Log
Mike Ireland	3/26/2012	5:45:00 AM	3:50:00 PM	Access Road, Plant Site	YES	Two soaring over western boundary.	YES	N/A	N/A	Attended Largo morning meeting. Site reorientation tour with DB. Checked ponding water. Sukut dragging ponding water. Checked scrapers for leaks. Sukut cleaning up very minor leaks. Perimeter fence check. Trench check. Small amount of trash observed. Checked access road for dead wildlife. Switched out memory card for wildlife camera for all DKF den complexes. Downloaded and reviewed all images and videos. Second monitoring check of entire site. Afternoon access road monitoring. Left site for day
Eric German	3/27/2012	6:00:00 AM	5:45:00 PM	Access Road, Plant Site	YES	4 flying and foraging.	YES	N/A	Site was looking cleaner today.	Surveyed/monitored access road. No findings. Attended jsa with Sukut. Speed limits appeared to be observed. There was a report of a car passing another vehicle. The information was passed onto contractors. Due to planned mowing, surveyed Unit 1, block 8, southern portion for nesting birds. No findings. Area has been in continual use for dumping of spoils from power block. Survey is redundant but appeared to be prudent. Discussed abbreviated WEAP options and presentation.
Mike Ireland	3/27/2012	5:35:00 AM	4:15:00 PM	Plant Site, Access Road	YES	3 soaring	YES	N/A	N/A	Monitored DKF telemetry. Monitored traffic speed on access road. Attended Sukut daily meeting. Filled ATV gas tank. Nesting bird survey. General site inspection including water tanks, trenches, equipment piles, scraper leaks, fences, DT exclusion grate, etc. DKF camera check. Process DKF images. Nesting bird buffer survey. Access road check. Left site for day.
Eric German	3/28/2012	6:30:00 AM	2:45:00 PM	Access Road, Plant Site	YES	4 flying and foraging.	YES	N/A	Site was looking cleaner today.	Surveyed/monitored access road. No finding. Speed limits appeared to be observed. Preconstruction survey of areas in March 21, 2012 Notice to Resume. (Unit 1, block 4 and portions of blocks 2 and 3.) No findings. Checked ditches, pitfalls, laydown areas. No findings. Attended Project Managers/RE/CBO Meeting - discussed working on solutions to potential delivery truck parking problems, Kit Fox update and Shrike nest. Monitored watering activities.
Mike Ireland	3/28/2012	5:35:00 AM	2:45:00 PM	Plant Site, Access Road	YES	2 soaring	YES	N/A	N/A	Monitored DKF telemetry. Monitored traffic speed on access road. Attended ARCOM daily meeting. General pre construction survey of Block 4. General site inspection including water tanks, trenches,

Genesis Solar - BM Daily Summary Report (Part 4 of 4)

AECOM

										equipment piles, scraper leaks, fences, DT exclusion grate, etc. DKF camera check. Process DKF images. Noise dB monitoring equipment check. Access road check. Left site for day.
Eric German	3/29/2012	6:30:00 AM	6:15:00 PM	Plant Site, Access Road	YES	6 ravens, 3 on power poles in morning.	YES	N/A	Collected sound data. 66.1 LEQ at 261 feet from noise source.	Surveyed/Monitored access road. Inspected ground underneath trucks parked near guard shack. Talked with drivers and reminded them to check under vehicles for desert tortoise. Speed limits appeared to be observed. Surveyed area of southern portion of Unit 1, blocks 4 and 8. No findings. Checked ditches, pitfalls and laydown areas. No findings. Completed perimeter fence check. No findings. Monitored watering activities. Evening walk through of Unit 1, Block 4 southern strip. No findings.
Mike Ireland	3/29/2012	5:40:00 AM	4:40:00 PM	Plant Site, Access Road	YES	2 soaring	YES	N/A	WEME, LOSH, HOLA, CORA, RTHA	Monitored DKF telemetry. Monitored traffic speed on access road. Attended AECOM daily meeting. Checked preparation watering of Block 4. General site inspection including water tanks, trenches, equipment piles, scraper leaks, fences, DT exclusion grate, etc. DKF camera check. Process DKF images. Noise dB monitoring equipment check. Sukut doing good with properly containing leaks. Checked south and west perimeter fence from the main gate to the northwest corner of the plant site. Access road check. Left site for day.
Eric German	3/30/2012	6:10:00 AM	5:00:00 PM	Plant Site, Access Road	YES	12 raven sightings. 4 near scraping activities.	YES	N/A	N/A	Surveyed/monitored access road. One vehicle was reported as exceeding the speed limit. Surveyed Unit 1 block 4 and buffer for nesting birds. Checked ditches, pitfalls, and laydown areas. One ditch, inside fenced area was noted to not have ramp. Discussed placement of stickers under HDPE pipes. Monitored watering and scraping activities Unit 1, blocks 2,3 and 4. All activity appeared in correct areas. Place flagging to prevent parking in unimproved area by guard shack.
Mike Ireland	3/30/2012	5:35:00 AM	2:30:00 PM	Plant Site, Access Road	YES	2 soaring	YES	N/A	WEME, HOLA, CORA, YRWA, CLSW, NOHA, SATH Rescued scorpion. Buried dead rattlesnake.	Monitored DKF telemetry. Monitored traffic speed on access road. Attended AECOM daily meeting. General site inspection including water tanks, trenches, equipment piles, scraper leaks, fences, DT exclusion grate, etc. DKF camera check. Process DKF images. Nesting bird survey. Offloaded all transect tracklogs. Access road check. Left site for day.

ATTACHMENT 5

SURVEY DATA FORMS

Genesis Solar Energy Project Pre-Construction Nest Survey Data Form

March 13, 2012

1500-1730

Temperature: 81F

Wind: 4-6 MPH

Pre-construction nest surveys were required prior to Genesis Solar Energy Project (Project) related ground disturbance activities. Included in this report are the findings from nest surveys completed on March 13, 2012. The surveyed areas were located along the eastern edge of each Block and were sparsely vegetated. Vegetation consisted primarily of creosote *(Larrea tridentata)*, burro-weed *(Ambrosia dumosa)*, and plantain *(Plantago* sp.*)* (Figure 1). These species are typical of creosote bush scrub plant communities. A previous vegetation mowing operation was evident due to the low profile and re-sprouting of creosote in the survey area.

Project biologists Eric German and Matt Kedziora conducted surveys in small areas in Unit 1 (Block 2 and Block 4) from 1500 to 1730. A small, narrow section of area south of Block 4 and 8 adjacent to the Project desert tortoise fence was also surveyed. Transects were completed in a north-south direction, spaced at 20 meters apart. Spacing was determined to allow for complete visual coverage of the survey area between biologists. Visual survey efforts included straying off the transect line at times to provide additional coverage of available nesting habitat. All incidental bird sightings were noted. Birds found were observed to determine whether they were paired or exhibiting nesting behavior (carrying nesting material, food transport).

RESULTS

No nests or bird activity was observed during the survey period. Although forage (insects, plant seed etc.) may have been available, the condition of the habitat during time of survey was less suitable then unaltered vegetation outside Project boundaries. Follow-up surveys will be conducted at different times to ensure no nesting is taking place.

Figure 1. Representative habitat photo, Unit 1 prior to grading on March 14, 2012

Genesis Solar Energy Project Pre-construction Nest Survey Data Form

Date:	Surveyor:	Construction Survey Area (Include start and stop UTMs if appropriate):
March 13, 2012	Eric German, Matt Kedziora	Unit 1, Block 2 and 4, east side

Start Time: 1500 **End Time:** 1730

Temperature (°C or °F): 81F **Weather:** Sun, wind 4-6 MPH

Nest #: **GPS location (UTMs, NAD 83):**
Nest Microhabitat:

Stage	# Eggs	# Yng	# Flg	Adult location	Succ?	Fail?	Buffer established?	Distance to ROW	Comments

Nest #: **GPS location (UTMs, NAD 83):**
Nest Microhabitat:

Stage	# Eggs	# Yng	# Flg	Adult location	Succ?	Fail?	Buffer established?	Distance to ROW	Comments

Nest #: **GPS location (UTMs, NAD 83):**
Nest Microhabitat:

Stage	# Eggs	#Yng	#Flg	Adult Location	Succ?	Fail?	Buffer established?	Distance to ROW	Comments

Nest #: **GPS location (UTMs, NAD 83):**
Nest Microhabitat:

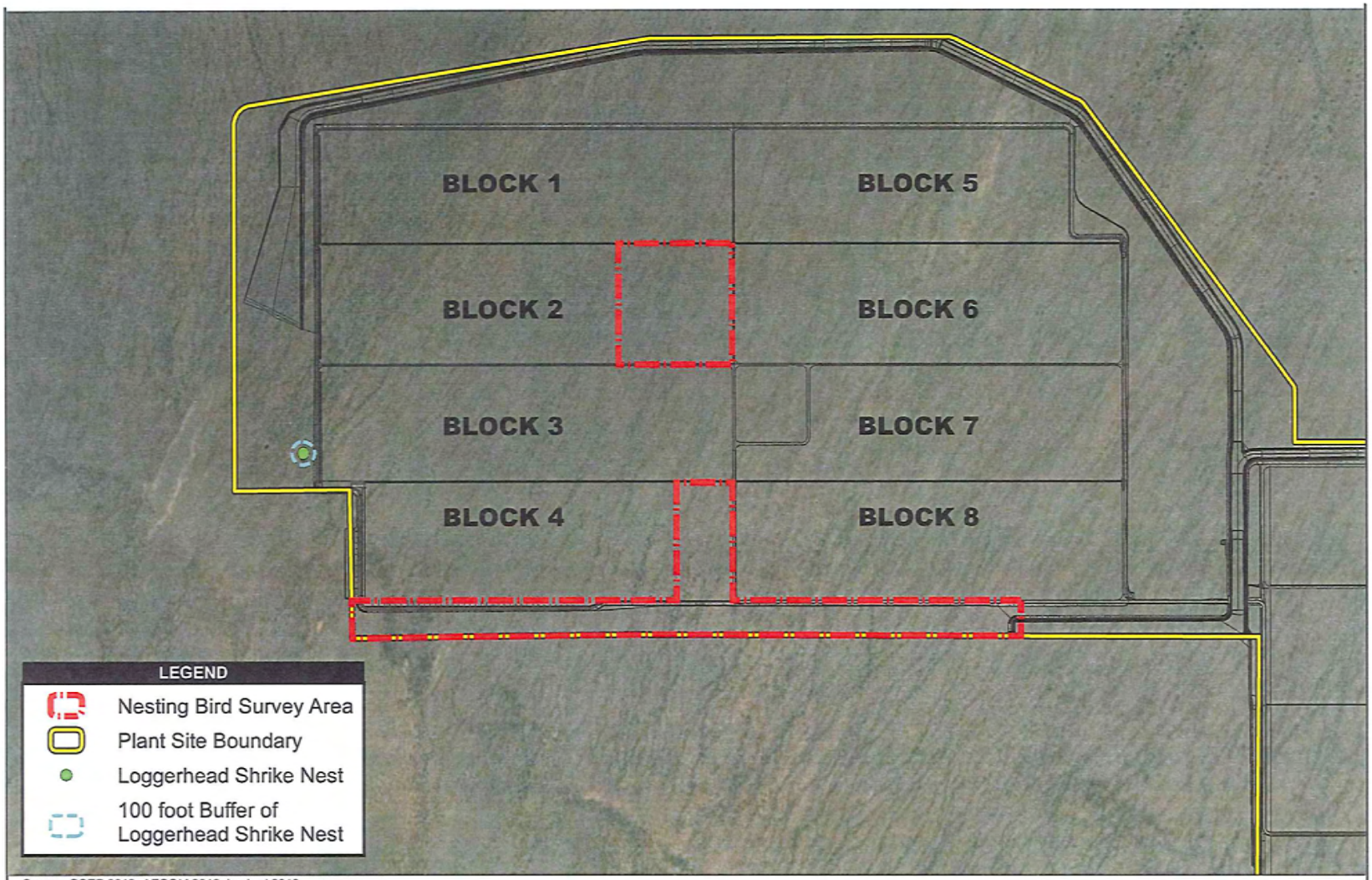
Stage	# Eggs	#Yng	#Flg	Adult Location	Succ?	Fail?	Buffer established?	Distance to ROW	Comments

Nest #: **GPS location (UTMs, NAD 83):**
Nest Microhabitat:

Stage	# Eggs	#Yng	#Flg	Adult Location	Succ?	Fail?	Buffer established?	Distance to ROW	Comments

Comments or Nest Location Map:

no nests located, see attached pages



Source: GSEP 2012; AECOM 2012; i-cubed 2010

0.25 0 0.25 Miles

Scale: 1:15,840; 1 inch = 0.25 mile

Genesis Solar Energy Project

Figure 1a
GSEP Unit 1 Nesting Bird Survey Area
March 13, 2012

Path: P:\2011\60220713\06GIS\6.3_Layout\Bio\Nesting Bird Survey Areas 20120405.mxd, 4/11/2012, irelandm

Genesis Solar Energy Project Pre-Construction Nest Survey Data Form

March 14, 2012

0630-0900; 1330-1830

Temperature: 55-81F

Wind: 0-2 MPH

Pre-construction nest surveys were required prior to Genesis Solar Energy Project (Project) related ground disturbance activities. Included in this report are the findings from nest surveys completed on March 14, 2012. The surveyed areas were located along the eastern edge of each Block and were sparsely vegetated. Vegetation consisted primarily of creosote *(Larrea tridentata)*, burro-weed *(Ambrosia dumosa)*, and plantain *(Plantago* sp.*)*. These species are typical of creosote bush scrub plant communities. A previous vegetation mowing operation was evident due to the low profile and re-sprouting of creosote in the survey area.

Project biologists Eric German and Matt Kedziora conducted surveys in eastern Unit 1 (Block 2) from 0630-0900. Transects were completed in a north-south direction, spaced at 20 meters apart. Spacing was determined to allow for complete visual coverage of the survey area between biologists. Visual survey efforts included straying off the transect line at times to provide additional coverage of available nesting habitat. All incidental bird sightings were noted. Birds found were observed to determine whether they were paired or exhibiting nesting behavior (carrying nesting material, food transport, etc.).

Additional nest surveys were conducted from 1330-1830 in Unit 1 (entire Block 4), the western boundary of Unit 1 (Block 3) and the Conservation Set Aside Area (CSAA). Additional surveying completed by Eric German was completed in Block 2 (eastern end 1730-1900). Transects were completed in an east-west direction, spaced at 20 meters apart, as described above. Similarly, a narrow section of area south of Block 4 and Block 8 (adjacent to the Project desert tortoise fence) was also surveyed (east to west).

RESULTS

0630-0900

Today's survey area was also monitored on March 13th and this survey was a follow up within the same Block. No birds, nests or nesting activity was observed during the survey period March 13th or today. The survey period was conducted prior to dust-control operation (watering) and grading operations following survey efforts.

1330-1830

Very little bird activity was observed. Species identified during the survey period include Say's phoebe *(Sayornis saya),* prairie falcon *(Falco mexicanus),* and loggerhead shrike *(Lanius ludovicianus)*. Species specific information relating to nest location and behavior of the Say's phoebe was provided in the February 15th 2012 survey information. The single phoebe was seen foraging on insects along the western boundary of the Block, and it was not indicating any nesting activity.

A single prairie falcon was seen flying just outside the Block, and nesting within the survey area would not be expected to occur. Prairie falcons typically nest in cliff edges, unavailable in the surveyed area. The species was not indicating any nesting behavior.

A single loggerhead shrike was seen perching and foraging along the boundary of western boundary of Unit 1 (Block 3) and the Conservation Set Aside Area (CSAA). The perch was located in ironwood tree *(Olneya tesota)*, as noted on the February 17, 2012 nesting bird survey conducted by Donna Germann, Vick Germany, Thomas Darden.

Visual inspection of the nest (also noted in the February 17 survey) resulted in the confirmation of 4 eggs (Figure 1). The nest was approached when no shrike was present, and special consideration was given to ensure no predators (ravens) were in the area. The approach to and the visual inspection of the nest was completed in less than 2 minutes. Continued monitoring of the nest will correspond with incubation periods of the species.

Figure 1. Shrike nest with eggs, eastern CSAA area.

Genesis Solar Energy Project Pre-construction Nest Survey Data Form

Date:	Surveyor:	Construction Survey Area (Include start and stop UTMs if appropriate):
03-14-12 (AM)	Eric German, Matt Kedziora	Unit 1 Block 2

Start Time: 0600 **End Time:** 0900

Temperature (°C or °F): 55-65 F **Weather:** Clouds 20%, Wind 0-2

Nest #: **GPS location (UTMs, NAD 83):**
Nest Microhabitat:

Stage	# Eggs	# Yng	# Flg	Adult location	Succ?	Fail?	Buffer established?	Distance to ROW	Comments

Nest #: **GPS location (UTMs, NAD 83):**
Nest Microhabitat:

Stage	# Eggs	# Yng	# Flg	Adult location	Succ?	Fail?	Buffer established?	Distance to ROW	Comments

Nest #: **GPS location (UTMs, NAD 83):**
Nest Microhabitat:

Stage	# Eggs	#Yng	#Flg	Adult Location	Succ?	Fail?	Buffer established?	Distance to ROW	Comments

Nest #: **GPS location (UTMs, NAD 83):**
Nest Microhabitat:

Stage	# Eggs	#Yng	#Flg	Adult Location	Succ?	Fail?	Buffer established?	Distance to ROW	Comments

Nest #: **GPS location (UTMs, NAD 83):**
Nest Microhabitat:

Stage	# Eggs	#Yng	#Flg	Adult Location	Succ?	Fail?	Buffer established?	Distance to ROW	Comments

Comments or Nest Location Map:

no nests located, see attached pages

Genesis Solar Energy Project Pre-construction Nest Survey Data Form

Date:	Surveyor:	Construction Survey Area (Include start and stop UTMs if appropriate):
03-14-12 (PM)	Eric German, Matt Kedziora	Unit 1 Block 4 (all), CSAA

Start Time: 1330 **End Time:** 1830

Temperature (°C or °F): 81 F **Weather:** Sun, Wind 0-2

Nest #: 1 **GPS location (UTMs, NAD 83):** **Nest Microhabitat:** N33 degrees 40.116', W115 degrees 01.318', located in ironwood tree

Stage	# Eggs	# Yng	# Flg	Adult location	Succ?	Fail?	Buffer established?	Distance to ROW	Comments
incubation	4	NA	NA	nearby	NA	NA	yes		photo taken to determine eggs present.

Nest #: **GPS location (UTMs, NAD 83):** **Nest Microhabitat:**

Stage	# Eggs	# Yng	# Flg	Adult location	Succ?	Fail?	Buffer established?	Distance to ROW	Comments

Nest #: **GPS location (UTMs, NAD 83):** **Nest Microhabitat:**

Stage	# Eggs	#Yng	#Flg	Adult Location	Succ?	Fail?	Buffer established?	Distance to ROW	Comments

Nest #: **GPS location (UTMs, NAD 83):** **Nest Microhabitat:**

Stage	# Eggs	#Yng	#Flg	Adult Location	Succ?	Fail?	Buffer established?	Distance to ROW	Comments

Nest #: **GPS location (UTMs, NAD 83):** **Nest Microhabitat:**

Stage	# Eggs	#Yng	#Flg	Adult Location	Succ?	Fail?	Buffer established?	Distance to ROW	Comments

Comments or Nest Location Map:

No nests found

Genesis Solar Energy Project Pre-construction Nest Survey Data Form

Date:	Surveyor:	Construction Survey Area (Include start and stop UTMs if appropriate):
03-14-12 (PM)	Eric German	Unit 1 Block 2 east

Start Time: 1730 End Time: 1900

Temperature (°C or °F): 75 F Weather: Low Sun, Wind 0-2

Nest #: 1	GPS location (UTMs, NAD 83): Nest Microhabitat:								
Stage	# Eggs	# Yng	# Flg	Adult location	Succ?	Fail?	Buffer established?	Distance to ROW	Comments
incubation									

Nest #:	GPS location (UTMs, NAD 83): Nest Microhabitat:								
Stage	# Eggs	# Yng	# Flg	Adult location	Succ?	Fail?	Buffer established?	Distance to ROW	Comments

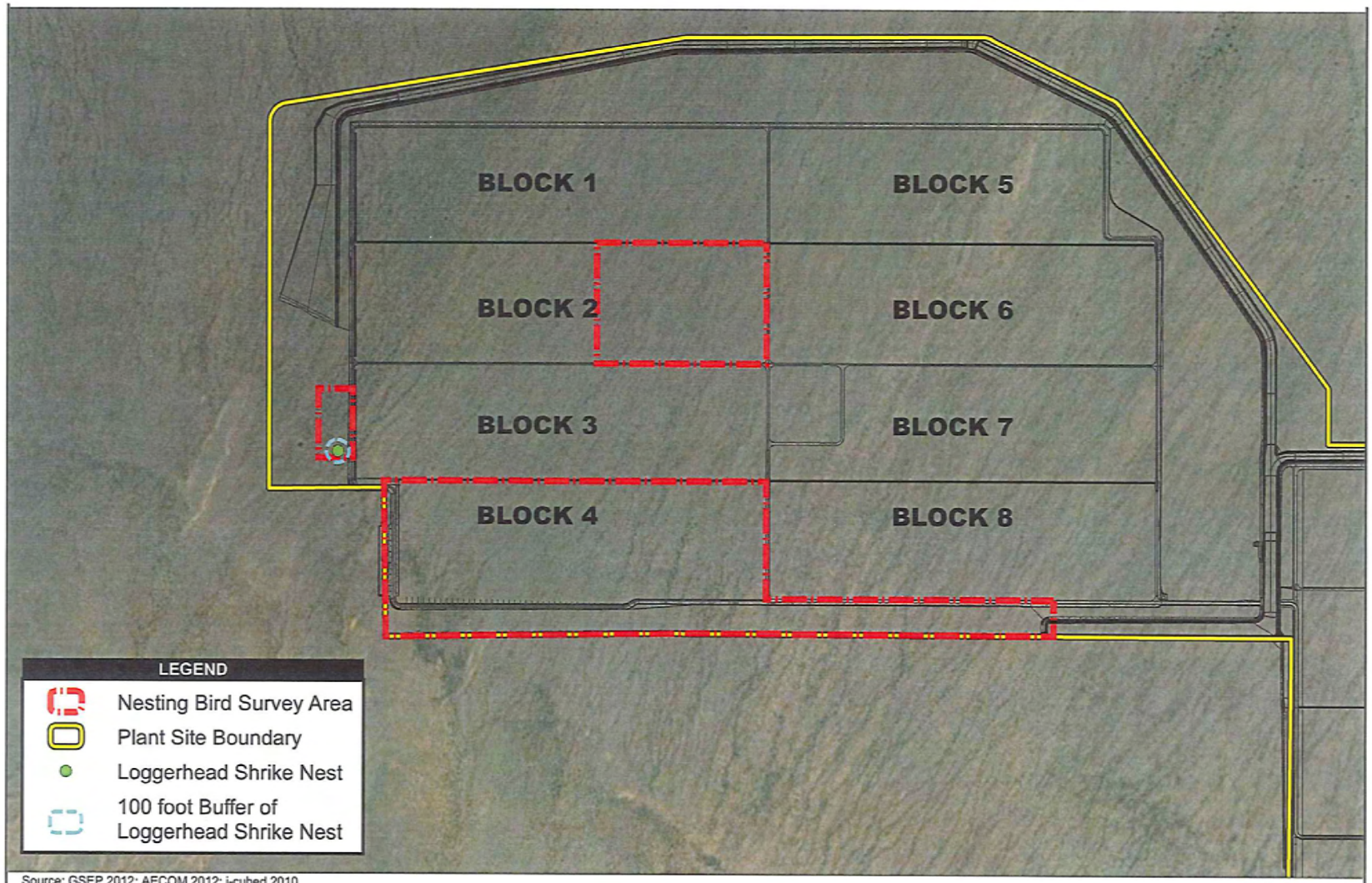
Nest #:	GPS location (UTMs, NAD 83): Nest Microhabitat:								
Stage	# Eggs	#Yng	#Flg	Adult Location	Succ?	Fail?	Buffer established?	Distance to ROW	Comments

Nest #:	GPS location (UTMs, NAD 83): Nest Microhabitat:								
Stage	# Eggs	#Yng	#Flg	Adult Location	Succ?	Fail?	Buffer established?	Distance to ROW	Comments

Nest #:	GPS location (UTMs, NAD 83): Nest Microhabitat:								
Stage	# Eggs	#Yng	#Flg	Adult Location	Succ?	Fail?	Buffer established?	Distance to ROW	Comments

Comments or Nest Location Map:

No nests found



Source: GSEP 2012; AECOM 2012; i-cubed 2010

0.25 0 0.25 Miles

Scale: 1:15,840; 1 inch = 0.25 mile

Genesis Solar Energy Project

Figure 1b
GSEP Unit 1 Nesting Bird Survey Area
March 14, 2012

Path: P:\2011\60220713\06GIS\6.3_Layout\Bio\Nesting Bird Survey Areas 20120405.mxd, 4/11/2012, irelandm

Genesis Solar Energy Project Pre-Construction Nest Survey Data Form

March 15, 2012

0630-0900

Temperature: 55-60F

Wind: 0 MPH

Pre-construction nest surveys were required prior to Genesis Solar Energy Project (Project) related ground disturbance activities. Included in this report are the findings from nest surveys completed on March 15, 2012. The surveyed areas were located along the eastern edge of each Block and were sparsely vegetated. Vegetation consisted primarily of creosote *(Larrea tridentata)*, burro-weed *(Ambrosia dumosa)*, and plantain *(Plantago* sp.*)*. These species are typical of creosote bush scrub plant communities. A previous vegetation mowing operation was evident due to the low profile and re-sprouting of creosote in the survey area.

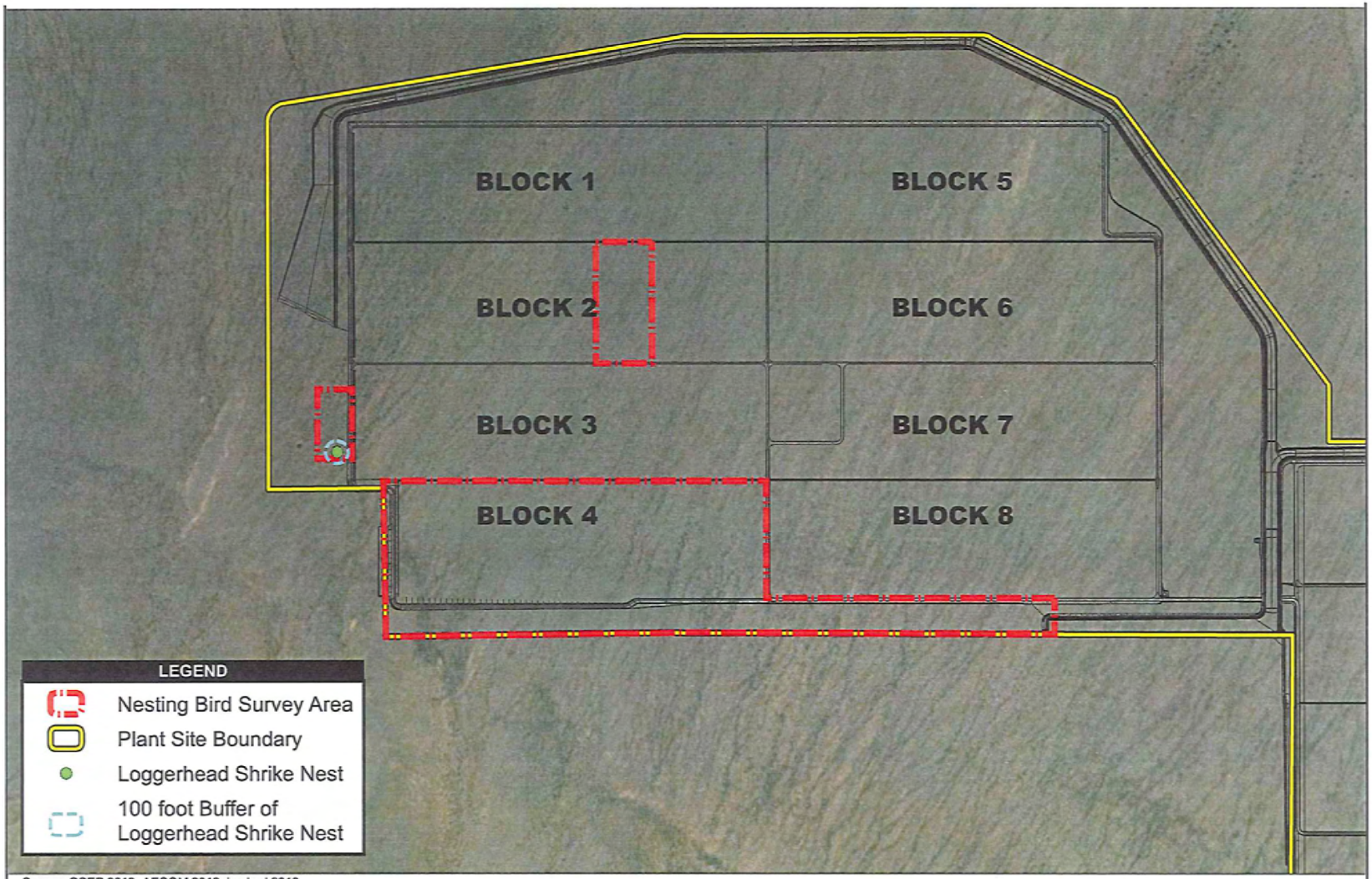
Project biologists Eric German and Matt Kedziora conducted surveys in eastern Unit 1 (Block 2- German) and Block 4- Kedziora) from 0630-0900. Additionally, a narrow section of area south of Block 4 and Block 8 (adjacent to the Project desert tortoise fence) was also surveyed. Transects were completed in an east-west direction, spaced at 20 meters apart. Spacing was determined to allow for complete visual coverage of the survey area. Visual survey efforts included straying off the transect line at times to provide additional coverage of available nesting habitat. All incidental bird sightings were noted. Birds found were observed to determine whether they were paired or exhibiting nesting behavior (carrying nesting material, food transport, etc.).

RESULTS

Today's survey in Block 4 was also monitored on March 14th and this survey was a follow up within the same Block. No birds, nests or nesting activity was observed during the survey period March 14th or today. A pair of loggerhead shrikes *(Lanius ludovicianus)* were seen perching, foraging, and nesting in the in ironwood tree *(Olneya tesota)*, as noted in the March 14th nesting survey report (CSAA area). The female was seen flying off and on the nest at 0718 and 0719. Surveying of the shrike nesting area was completed from a distance of 100 yards or more, at the northwest corner of Block 4.

Surveying of Block 2 revealed little bird activity and no nesting activity. One unknown sparrow was recorded.

Figure 1. Unit 1, Block 4 (looking south)- The habitat in the western end of Block 4 in more dense and diverse than east of this point.



Source: GSEP 2012; AECOM 2012; i-cubed 2010

0.25 0 0.25 Miles

Scale: 1:15,840; 1 inch = 0.25 mile

Genesis Solar Energy Project

Figure 1c
GSEP Unit 1 Nesting Bird Survey Area
March 15, 2012

Path: P:\2011\60220713\06GIS\6.3_Layout\Bio\Nesting Bird Survey Areas 20120405.mxd, 4/11/2012, irelandm

Genesis Solar Energy Project Pre-Construction Nest Survey Data Form

March 16, 2012

0630-0912

Temperature: 55-60F

Wind: 0 MPH

Pre-construction nest surveys were required prior to Genesis Solar Energy Project (Project) related ground disturbance activities. Included in this report are the findings from nest surveys completed on March 16, 2012. The surveyed areas were north of the Conservation Set Aside Area (CSAA) and west of Unit 1 Block 1 and 2. Vegetation consisted primarily of big gallketa grass *(Hilaria rigida),* creosote *(Larrea tridentata)*, and burro-weed *(Ambrosia dumosa)*.. These species are typical of Sonoran creosote bush scrub plant communities. A previous vegetation mowing operation was evident due to the low profile and re-sprouting of creosote in the survey area.

Project biologists Eric German and Matt Kedziora conducted surveys 0630-0900. Transects were completed in a north-south direction, spaced at 20 meters apart. Spacing was determined to allow for complete visual coverage of the survey area. Visual survey efforts included straying off the transect line at times to provide additional coverage of available nesting habitat. All incidental bird sightings were noted. Birds found were observed to determine whether they were paired or exhibiting nesting behavior (carrying nesting material, food transport, etc.).

RESULTS

Birds observed include a house finch *(Carpodacus mexicanus),* common raven *(Corvus corax),* and a red-tailed hawk *(Buteo jamaicensis).* The fouse finch pair did not display nesting behavior, as they were seen foraging in the northwest boundary of the survey area, moving through. The pair of ravens and the red-tailed hawk was reported moving through the site without stopping. One loggerhead shrikes *(Lanius ludovicianus)* were seen perching, foraging, and travelling north to south toward a known nest an ironwood tree *(Olneya tesota)*, as noted in the March 14th nesting survey report (CSAA area).

Figure 1. Habitat representative of surveyed area (north view), March 16, 2012. Galleta grass in foreground. Note low profile of creosote.

Genesis Solar Energy Project Pre-construction Nest Survey Data Form

Date:	Surveyor:	Construction Survey Area (Include start and stop UTMs if appropriate):
03-16-12 (AM)	Eric German, Matt Kedziora	West of Unit 1 (west Block 1A, 1H, 2A, 2H), north of CSAA

Start Time: 0630 **End Time:** 0912

Temperature (°C or °F): 55-60 F **Weather:** Sun, Wind 0

Nest #: **GPS location (UTMs, NAD 83):**
Nest Microhabitat:

Stage	# Eggs	# Yng	# Flg	Adult location	Succ?	Fail?	Buffer established?	Distance to ROW	Comments

Nest #: **GPS location (UTMs, NAD 83):**
Nest Microhabitat:

Stage	# Eggs	# Yng	# Flg	Adult location	Succ?	Fail?	Buffer established?	Distance to ROW	Comments

Nest #: **GPS location (UTMs, NAD 83):**
Nest Microhabitat:

Stage	# Eggs	#Yng	#Flg	Adult Location	Succ?	Fail?	Buffer established?	Distance to ROW	Comments

Nest #: **GPS location (UTMs, NAD 83):**
Nest Microhabitat:

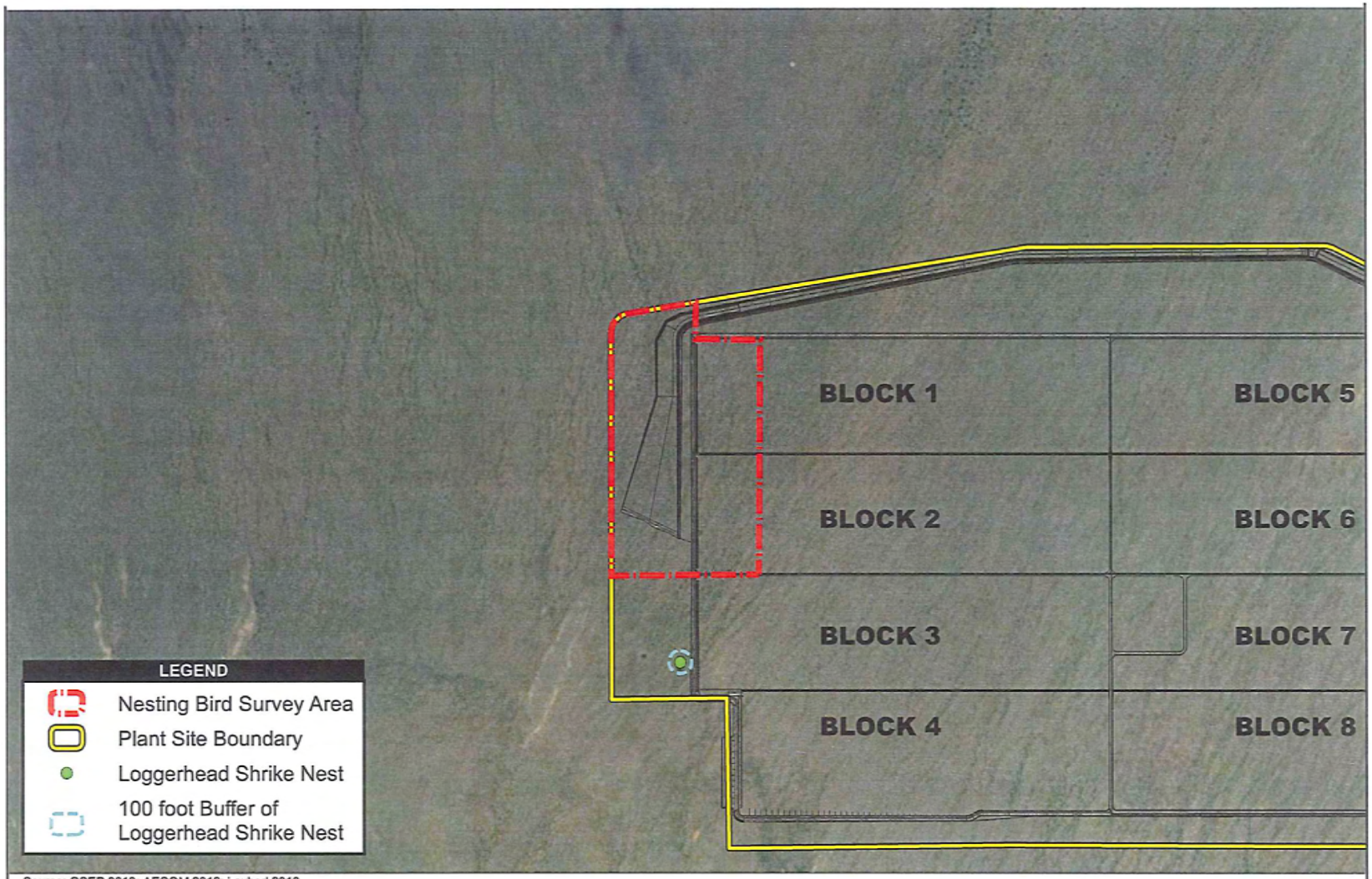
Stage	# Eggs	#Yng	#Flg	Adult Location	Succ?	Fail?	Buffer established?	Distance to ROW	Comments

Nest #: **GPS location (UTMs, NAD 83):**
Nest Microhabitat:

Stage	# Eggs	#Yng	#Flg	Adult Location	Succ?	Fail?	Buffer established?	Distance to ROW	Comments

Comments or Nest Location Map:

No nests found



Source: GSEP 2012; AECOM 2012; i-cubed 2010

0.25 0 0.25 Miles

Scale: 1:15,840; 1 inch = 0.25 mile

Genesis Solar Energy Project

Figure 1d
GSEP Unit 1 Nesting Bird Survey Area
March 16, 2012

Path: P:\2011\60220713\06GIS\6.3_Layout\Bio\Nesting Bird Survey Areas 20120405.mxd, 4/11/2012, irelandm

GSEP Preconstruction Nesting Bird Survey Data Summary Table: March 19 through 30, 2012

Surveyor	Date	Start Time	End Time	Areas	Start Northing	Start Easting	End Northing	End Easting	Start Temperature	End Temperature
Eric German	3/19/2012	9:40:00 AM	11:30:00 AM	Plant Site					56	60
Eric German	3/22/2012	11:25:00 AM	1:30:00 PM	Plant Site					81	
Eric German	3/23/2012	8:15:00 AM	9:30:00 AM	Other					69	
Mike Ireland	3/26/2012	9:15:00 AM	10:10:00 AM	Plant Site	3726687	684391	3726698	685604	68	72
Eric German	3/27/2012	2:45:00 PM	3:35:00 PM	Plant Site	3726669	685585	3726620	684505	78	80
Eric German	3/30/2012	8:00:00 AM	11:45:00 AM	Plant Site	3726674	683492	3727005	684186	58	83

GSEP Preconstruction Nesting Bird Survey Data Summary Table: March 19 through 30, 2012

Weather	Cloud Cover	Nest Information	Nest ID	Nest Northing	Nest Easting	Micro habitat	Nest Stage	Eggs	Young	Fledged	Adult Location	Nest Disposition
Sunny	0%	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	N/A	N/A
Sunny	0%	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	N/A	N/A
Sunny	0%	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	N/A	N/A
Sunny	0%	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	N/A	N/A
Sunny	10%	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	N/A	N/A
Sunny	5%	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	N/A	N/A

GSEP Preconstruction Nesting Bird Survey Data Summary Table: March 19 through 30, 2012

Buffer Established?	Buffer Distance	Distance to ROW	Comments
N/A	0	0	No nests found. Horned Larks Observed.
N/A	0	0	Survey area: Unit 1, block 4 and a portion of block 2. Horned Larks Observed.
N/A	0	0	Unit 1, Block 4 200' buffer outside but proximate to plant site. Horned Larks observed.
N/A	0	0	NO NESTS OBSERVED. Unit 1, Block 8 Wind 0-1 mph HOLA flying over. Horned lark, Cliff swallow, Common Raven
N/A	0	0	Buffer below unit 1. Block 8 Horned lark, Cliff swallow, Common Raven No nests, nesting birds or birds exhibiting nesting behavior observed.
N/A	0	0	Horned lark, Yellow rumped warbler, Westetn meadowlark, Cliff swallow, Common Raven, Northern harrier, Sage Thraher No nests or birds exhibiting nesting behavior were observed.

Genesis Solar Energy Project Pre-Construction Avian Survey Data Form

March 19, 2012

0940-1130

Temperature: 56-60F

Wind: 5-10 MPH

Pre-construction nest surveys are required prior to Genesis Solar Energy Project (Project) related ground disturbance activities. Included in this report are the findings from avian surveys completed on March 19, 2012.

Methodology

Project biologists Eric German and Robert Conohan conducted surveys in Unit 1 Block 4, 8 and a small section of Block 2. Additionally, a narrow 200ft buffer area south of Block 4 and Block 8 (adjacent to the project's desert tortoise fence) was also surveyed. Transects were completed in an east-west direction, spaced at 20 meters apart. Spacing was determined to allow for complete visual coverage of the survey area. Visual survey efforts included straying off the transect line at times to provide additional coverage of available nesting habitat. All incidental bird sightings were noted. Birds which were detected were then observed from a distance in-order to watch their behaviour to see if they exhibited any breeding season behavior (nest defense, carrying nesting material, food transport, etc.) or were simply transients birds foraging or migrating through the area.

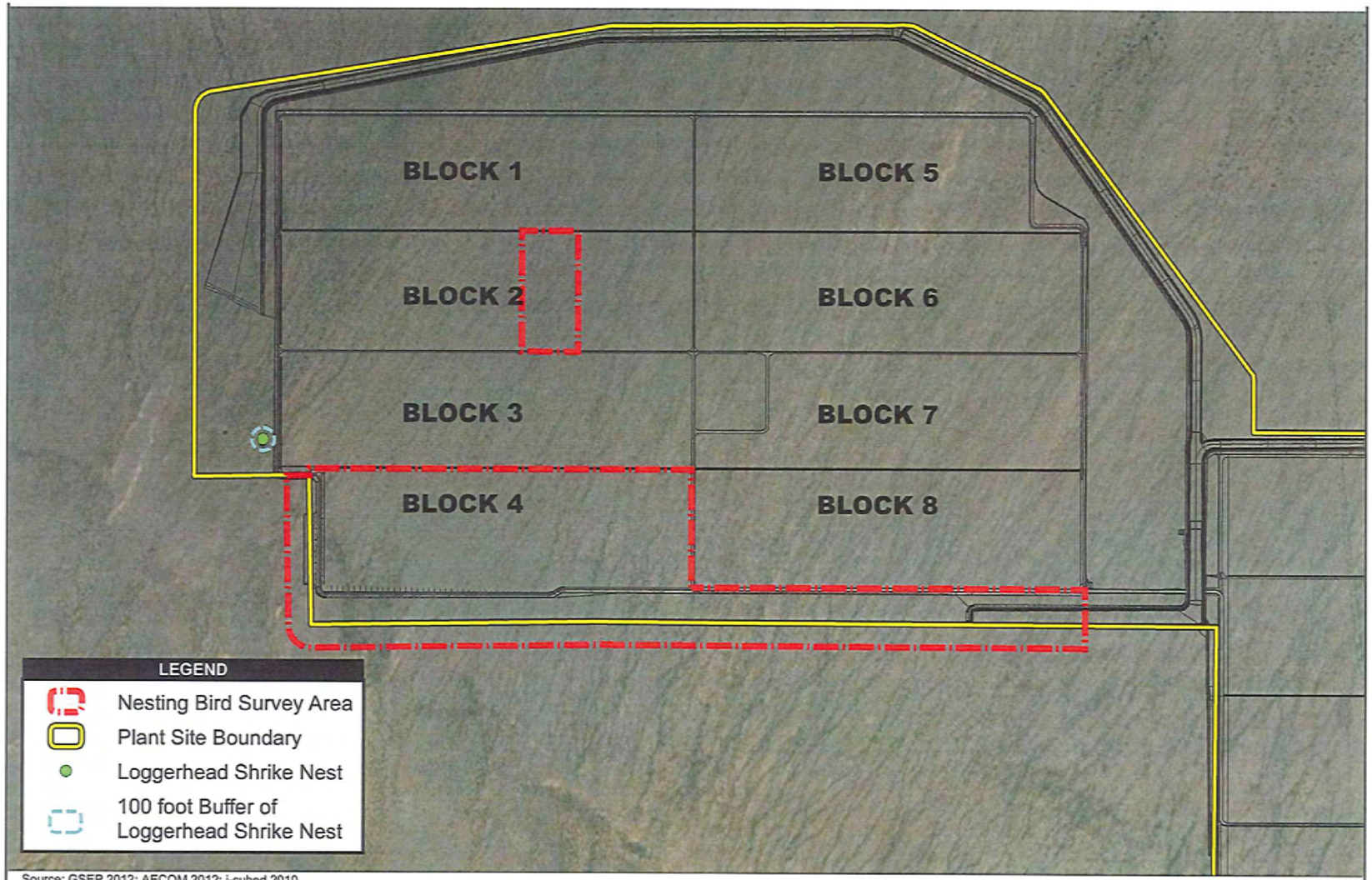
RESULTS

Vegetation consisted primarily of creosote *(Larrea tridentata)*, burro-weed *(Ambrosia dumosa)*, and plantain *(Plantago* sp.*)*. These species are typical of creosote bush scrub plant communities. A previous vegetation mowing operation was evident due to the low profile and re-sprouting of creosote in the survey area.

All of Block 4 was surveyed and no nests or nesting behavior was observed. A small group of Horned Larks were observed flying through the area and these birds are not likely to be resident individuals.

Block 8, sections 8H-8K were surveyed and no nests, nesting activity or birds were observed.

Surveying of Block 2 occurred in sections 2E, 2L and eastern portions of 2D and 2K. No bird activity was observed.



Source: GSEP 2012; AECOM 2012; i-cubed 2010

0.25 0 0.25 Miles

Scale: 1:15,840; 1 inch = 0.25 mile

Genesis Solar Energy Project

Figure 1e
GSEP Unit 1 Nesting Bird Survey Area
March 19, 2012

Path: P:\2011\60220713\06GIS\6.3_Layout\Bio\Nesting Bird Survey Areas 20120405.mxd, 4/11/2012, irelandm

Genesis Solar Energy Project Pre-Construction Avian Survey Data Form

March 22, 2012

1125-1330

Temperature: 81F

Wind: 5-7 MPH

Pre-construction nest surveys are required prior to Genesis Solar Energy Project (Project) related ground disturbance activities. Included in this report are the findings from avian surveys completed on March 22, 2012.

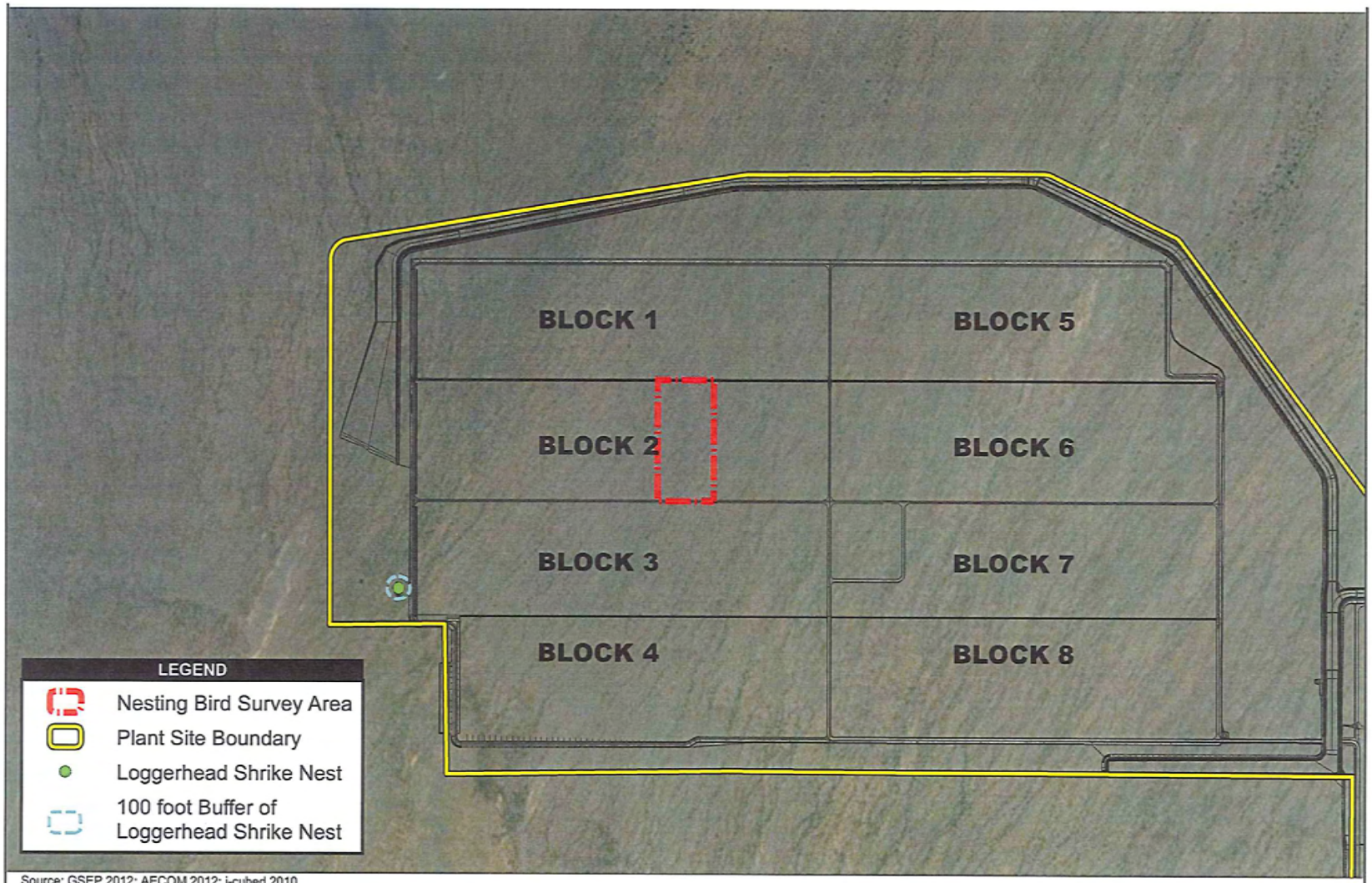
Project biologists Eric German and Robert Conohan conducted surveys in Unit 1 Block 4 and a small section of Block 2. Transects were completed in an east-west direction, spaced at 20 meters apart. Spacing was determined to allow for complete visual coverage of the survey area. Visual survey efforts included straying off the transect line at times to provide additional coverage of available nesting habitat. All incidental bird sightings were noted. Birds which were detected were then observed from a distance in-order to watch their behaviour to see if they exhibited any breeding season behavior (nest defense, carrying nesting material, food transport, etc.) or were simply transients birds foraging or migrating through the area.

RESULTS

Vegetation consisted primarily of creosote *(Larrea tridentata)*, burro-weed *(Ambrosia dumosa),* and plantain *(Plantago* sp.*)*. These species are typical of creosote bush scrub plant communities. A previous vegetation mowing operation was evident due to the low profile and re-sprouting of creosote in the survey area.

All of Block 4 was surveyed and no nests or nesting behavior was observed. A small group of 4 Horned Larks were observed flying through the area and these birds are not likely to be resident individuals.

Surveying of Block 2 occurred in sections 2E, 2L and eastern portions of 2D and 2K. No bird activity was observed.



Source: GSEP 2012; AECOM 2012; i-cubed 2010

0.25 0 0.25 Miles

Scale: 1:15,840; 1 inch = 0.25 mile

Genesis Solar Energy Project

Figure 1f
GSEP Unit 1 Nesting Bird Survey Area
March 22, 2012

Path: P:\2011\60220713\06GIS\6.3_Layout\Bio\Nesting Bird Survey Areas 20120405.mxd, 4/11/2012, irelandm

Genesis Solar Energy Project Pre-Construction Avian Survey Data Form

March 23, 2012

0815-0930

Temperature: 69F

Wind: 5-7 MPH

Pre-construction nest surveys are required prior to Genesis Solar Energy Project (Project) related ground disturbance activities. Included in this report are the findings from avian surveys completed on March 23, 2012.

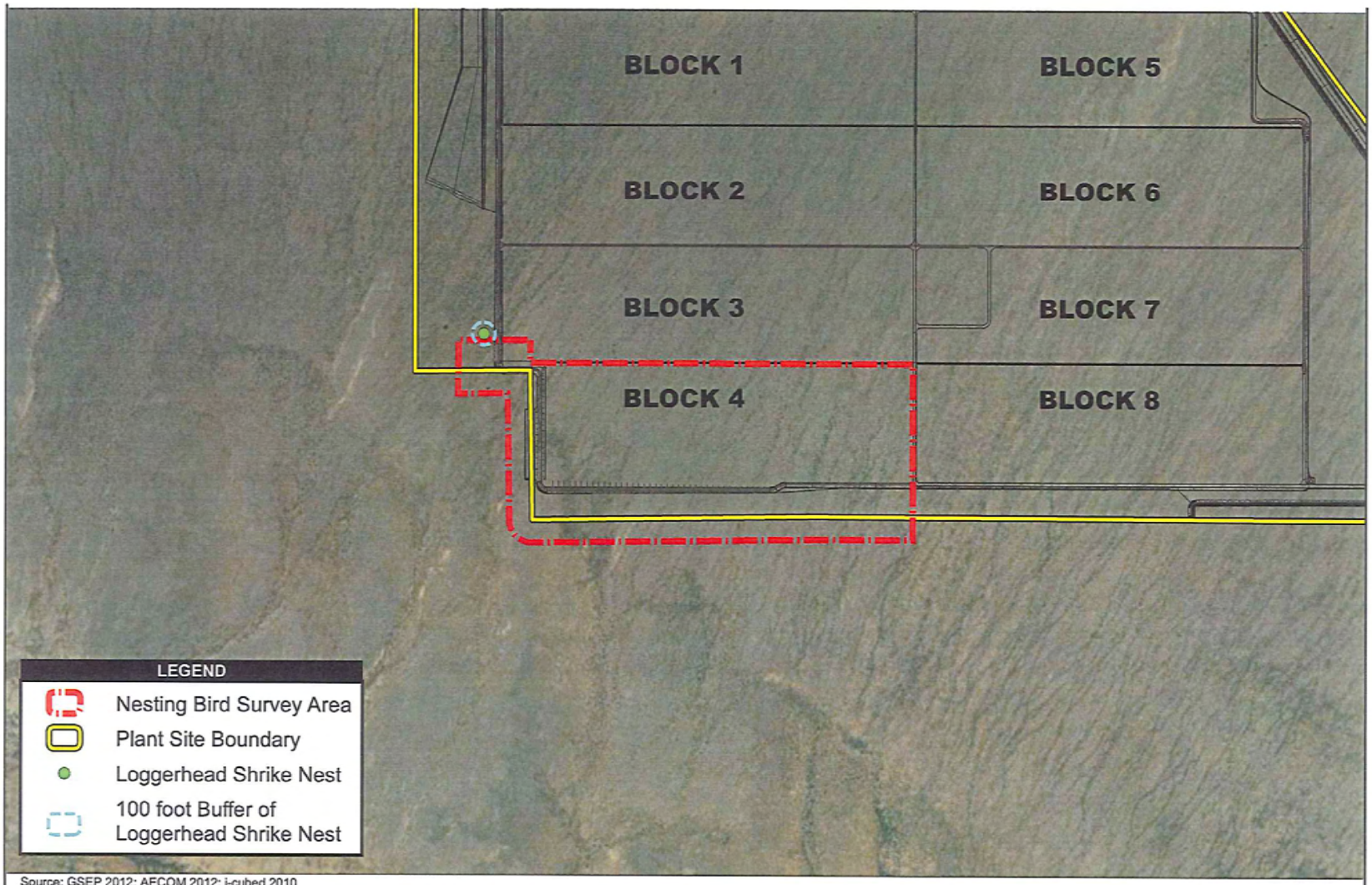
Methodology

Project biologists Eric German and Robert Conohan conducted surveys within 200ft of the western and southern Desert tortoise fence along Block 4 in Unit 1. Transects were completed in an east-west direction, spaced at 20 meters apart. Spacing was determined to allow for complete visual coverage of the survey area. Visual survey efforts included straying off the transect line at times to provide additional coverage of available nesting habitat. All incidental bird sightings were noted. Birds which were detected were then observed from a distance in-order to watch their behavior to see if they exhibited any breeding season behavior (nest defense, carrying nesting material, food transport, etc.) or were simply transients birds foraging or migrating through the area.

RESULTS

Vegetation consisted primarily of creosote *(Larrea tridentata)*, burro-weed *(Ambrosia dumosa),* and plantain *(Plantago* sp.*)*. These species are typical of creosote bush scrub plant communities.

While surveying the buffer area only Horned Larks were observed. A small group of widely distributed individuals were heard calling, foraging and flying through the area. The birds were observed to look for breeding behavior but none documented. This scattered flock were likely migrating through the area.



Source: GSEP 2012; AECOM 2012; i-cubed 2010

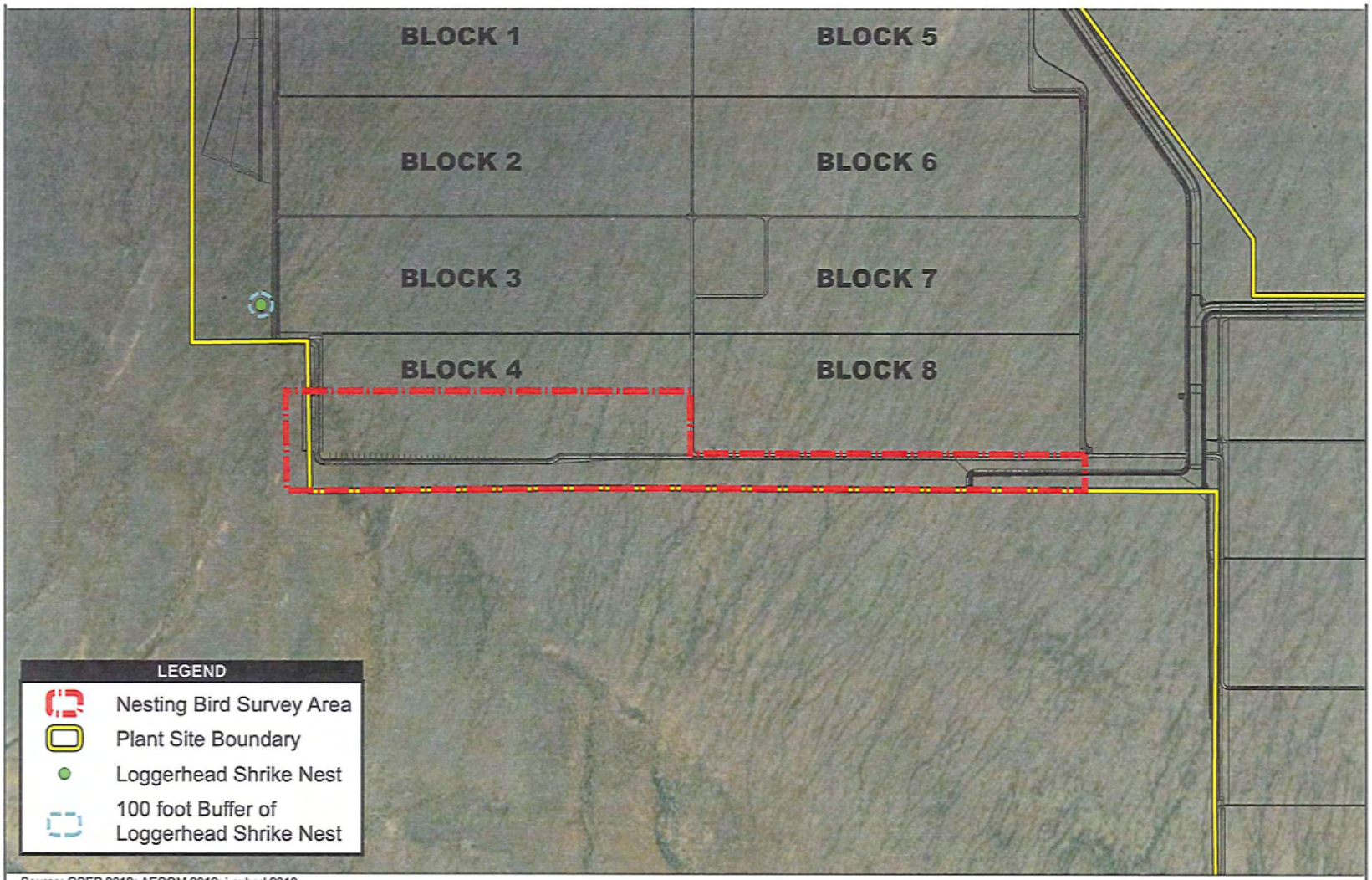
0.25 0 0.25 Miles

Scale: 1:15,840; 1 inch = 0.25 mile

Genesis Solar Energy Project

Figure 1g
GSEP Unit 1 Nesting Bird Survey Area
March 23, 2012

Path: P:\2011\60220713\06GIS\6.3_Layout\Bio\Nesting Bird Survey Areas 20120405.mxd, 4/11/2012, irelandm



Source: GSEP 2012; AECOM 2012; i-cubed 2010

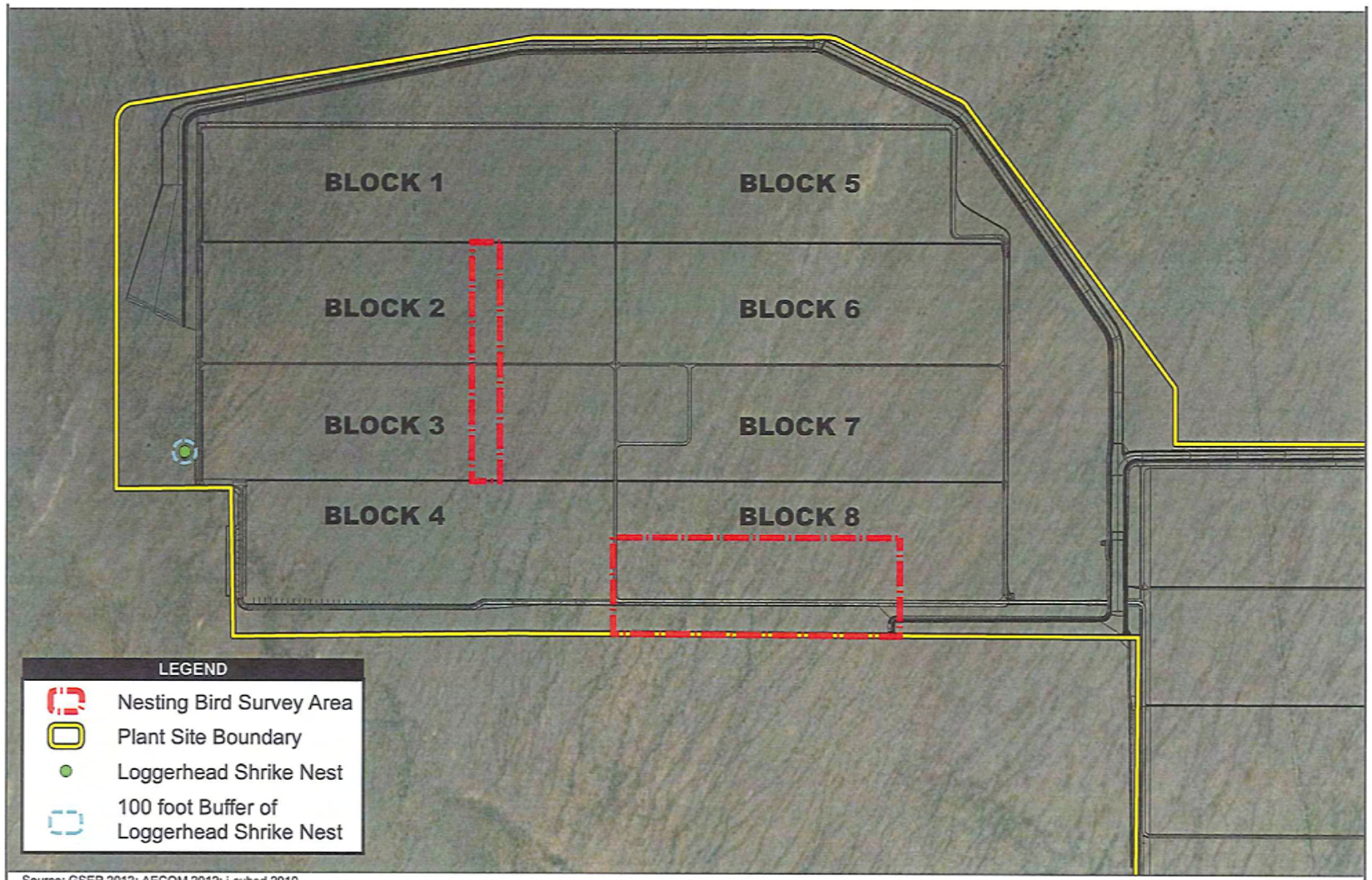
0.25 0 0.25 Miles

Scale: 1:15,840; 1 inch = 0.25 mile

Genesis Solar Energy Project

Figure 1h
GSEP Unit 1 Nesting Bird Survey Area
March 26, 2012

Path: P:\2011\60220713\06GIS\6.3_Layout\Bio\Nesting Bird Survey Areas 20120405.mxd, 4/11/2012, irelandm



Source: GSEP 2012; AECOM 2012; i-cubed 2010

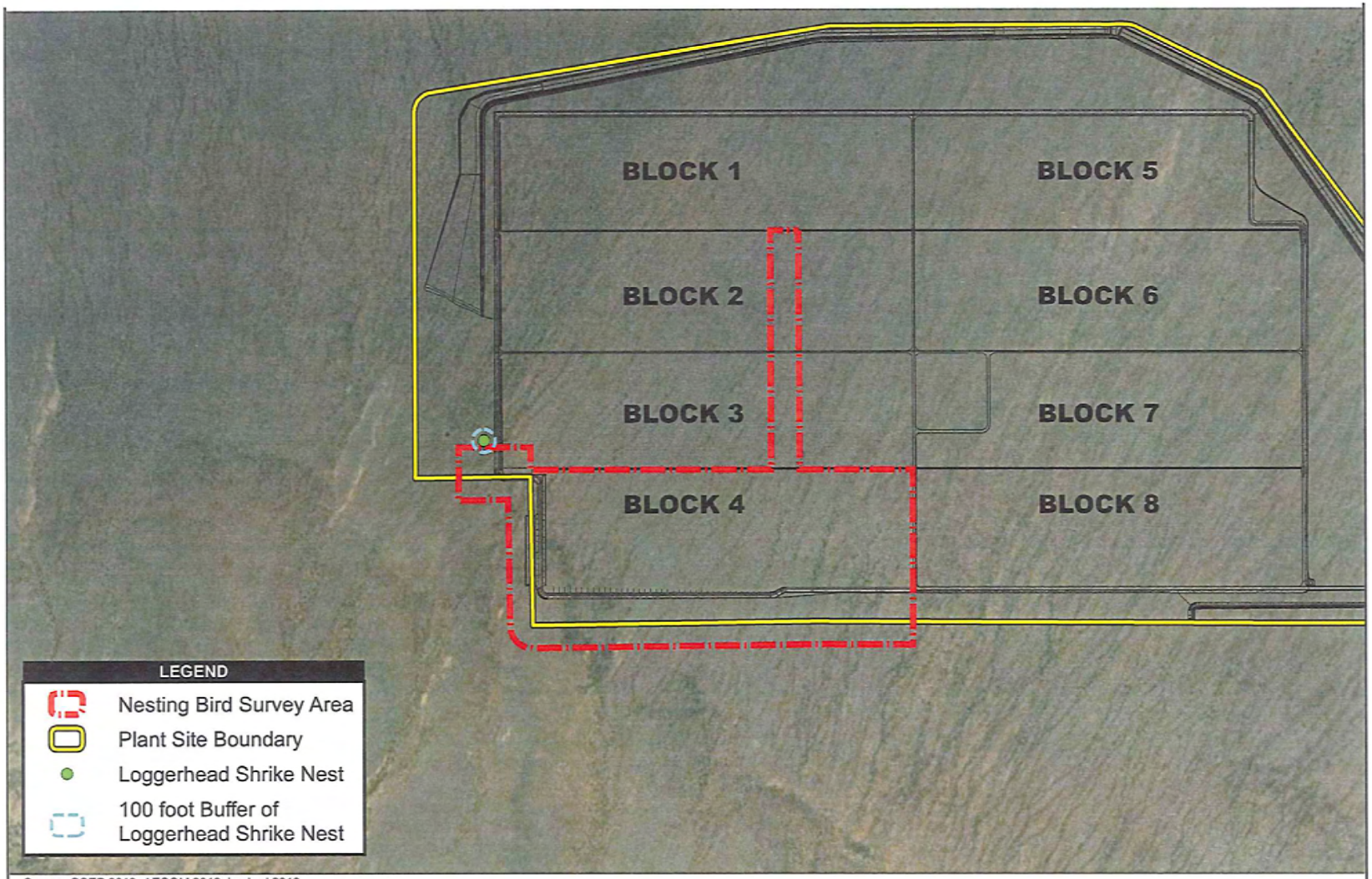
0.25 0 0.25 Miles

Scale: 1:15,840; 1 inch = 0.25 mile

Genesis Solar Energy Project

Figure 1i
GSEP Unit 1 Nesting Bird Survey Area
March 27, 2012

Path: P:\2011\60220713\06GIS\6.3_Layout\Bio\Nesting Bird Survey Areas 20120405.mxd, 4/11/2012, irelandm



Source: GSEP 2012; AECOM 2012; i-cubed 2010

0.25 0 0.25 Miles

Scale: 1:15,840; 1 inch = 0.25 mile

Genesis Solar Energy Project

Figure 1j
GSEP Unit 1 Nesting Bird Survey Area
March 30, 2012

Path: P:\2011\60220713\06GIS\6.3_Layout\Bio\Nesting Bird Survey Areas 20120405.mxd, 4/11/2012, irelandm

ATTACHMENT 6

CORRESPONDENCE

Guigliano, Jennifer

From: Dayman, Shelly
Sent: Tuesday, February 28, 2012 3:36 PM
To: Guigliano, Jennifer
Subject: Fwd: GSEP Unit 1, BIO-15 Exhibit, 02-13-12

Follow Up Flag: Follow up
Flag Status: Flagged

Here is the email about nesting birds

Sent from my iPhone

Begin forwarded message:

> **From:** "Thomas B. Darden" <dardengenesis@gmail.com>
> **To:** "Dayman, Shelly" <Shelly.Dayman@aecom.com>
> **Subject: Fwd: GSEP Unit 1, BIO-15 Exhibit, 02-13-12**

---------- Forwarded message ----------
From: Carol Watson <CWatson@energy.ca.gov<mailto:CWatson@energy.ca.gov>>
Date: Mon, Feb 13, 2012 at 3:25 PM
Subject: Fwd: GSEP Unit 1, BIO-15 Exhibit, 02-13-12
To: Mark_Massar@blm.gov<mailto:Mark_Massar@blm.gov>, MCRodriguez@dfg.ca.gov<mailto:MCRodriguez@dfg.ca.gov>, "Thomas B. Darden" <dardengenesis@gmail.com<mailto:dardengenesis@gmail.com>>
Cc: Eric Veerkamp <EVeerkam@energy.ca.gov<mailto:EVeerkam@energy.ca.gov>>, Rick York <Ryork@energy.ca.gov<mailto:Ryork@energy.ca.gov>>

RE Proposed survey boundaries for spring 2012 nesting bird surveys

Magdalena and Mark,
this morning I had a conversation with Thomas regarding where to perform the nesting bird surveys. The conditions specify all suitable nesting habitat (in white shading on the attached map) be surveyed, including a 500 ft. buffer. Thomas and I agreed preliminarily to the following 2 modifications, with the caveat that BLM and CDFG must also agree.

1. The 500 ft buffer be reduced to 200 feet in adjacent offsite BLM habitat: I think it's more than adequate to provide a safe flushing distance, but I'd like to confirm agency approval of this approach.

2. Survey buffer be eliminated on portions of the site that abut cleared land, i.e. as shown in the attached map, the northern boundary of block 2, abutting the previously-cleared block 1, would not have a survey boundary, since there is no adjacent habitat and therefore no nesting birds needing protection.

Also, BUOW surveys will be completed at the same time as nesting bird surveys, with reporting consisting of anecdotal (non-protocol-level) sightings.

Let me know if you have any questions. Thomas is planning on starting surveys Wednesday, so I'd like to have your answers by tomorrow COB if possible. Let me know if I need to set up a brief conference call to discuss further,

thanks and regards,
Carol Watson

''''''''''''''''''''''''''

Carol Watson, Staff Biologist
Energy Commission
916-651-3779<mailto:916.651.3779cwatson@energy.state.ca.us>

"Thomas B. Darden"
<dardengenesis@gmail.com<mailto:dardengenesis@gmail.com>>
2/13/2012 10:52 AM >>>

Carol, attached is the exhibit we discussed with the modifications.
I slipped up marking the south end. The straight line that has survey written in it is the small area that remains ungraded. The buffer would be south of that as I neglected to put in a dashed line representing the fence. The dashed line I drew in was simulating the 500ft buffer.
Please discuss as appropriate and I await your reply. For now, I will alert the Field Mgr. relaying this is whay I pitched that I believe we should only be obligated to survey per BIO-15 (BIO-18 via incidental during nesting surveys for 15)
Thomas

--
Thomas B. Darden
Designated Biologist
Genesis Solar Energy Project
135 B North Commercial St.
Blythe, CA 92225
(530) 604-5496<tel:%28530%29%20604-5496>

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Thomas B. Darden
Designated Biologist
Genesis Solar Energy Project
135 B North Commercial St.
Blythe, CA 92225
(530) 604-5496

Genesis Solar Energy Project
Kit Fox Monitoring
Week Ending March 9, 2012
Eric German

Beginning March 7, 2012 the kit fox monitoring was performed following the transition by Eric German and Biologists on site.

The telemetry equipment was picked up from the Blythe Fish and Game Office and seems to be in working order; both the omni and antennae were tested and picked up frequency pings in the vicinity of the radio-collared pair. The rate of pings is about 4 beats per 5 seconds.

Cameras were monitored on a daily basis.
1KMS Den, the past residence of DD, has a pair of kit foxes that appear healthy. Both foxes of the pair were last observed on video on the March 9, 2012 download.

Guard Den, the radio-collared pair appear healthy based on photos and telemetry. Morning telemetry at 06:02 on March 9, 2012 indicated that both animals were alive. Both foxes of the pair were last observed on video on the March 9, 2012 download.

Mid South Den, no kit fox activity observed on camera monitoring downloads.

8 West Den, no kit fox activity observed on camera monitoring downloads.

S.Fence Den, no kit fox activity observed on camera monitoring downloads.

Week ending 03-16-12

Genesis Desert Kit Fox
Weekly Telemetry Data

ID #	Sex	Name	Frequency	Capture Site	Last Heard Date	Last Heard Time	Last Heard Location	Comments
86046	male	Lil Tom	16 - 0.1195		03/12/12	0640; no contact at PM check (1915)	Guard Den vicinity	both animals observed in same photo at 0549
B6CAF	female	Yentil	16 - 0.044		03/12/12	0640; no contact at PM check (1915)	Guard Den vicinity	
86046	male	Lil Tom	16 - 0.1195		03/13/12	PM check (1759)	Guard Den vicinity	no camera records today for either animal
B6CAF	female	Yentil	16 - 0.044		03/13/12	PM check (1759)	Guard Den vicinity	Yentil heard 0.8 miles west of Arizona crossing on access road in AM (0545)
86046	male	Lil Tom	16 - 0.1195		03/14/12	PM check (1857)	Guard Den vicinity	no camera records today for either animal
B6CAF	female	Yentil	16 - 0.044		03/14/12	PM check (1857)	Guard Den vicinity	
86046	male	Lil Tom	16 - 0.1195		03/15/12	PM check (1845)	Guard Den vicinity	no camera records today for either animal
B6CAF	female	Yentil	16 - 0.044		03/15/12	PM check (1845)	Guard Den vicinity	
86046	male	Lil Tom	16 - 0.1195		03/16/12	AM checks (0538 and 1120)	Guard Den Vicinity	both animals observed in same photo at 1810, March 15th (today's card change photos)
B6CAF	female	Yentil	16 - 0.044		03/16/12	AM checks (0538 and 1120)	Guard Den Vicinity	

Genesis Solar Energy Project
Kit Fox Monitoring
Week Ending March 16, 2012
Eric German

Kit fox monitoring continued with DBA Eric German and bio monitors each day. Telemetry monitoring was conducted in the morning and evening to determine that collars were transmitting at 4 pings per 5 seconds ("live" signal). Camera trap data cards were also monitored and changed as needed daily.

1KMS Den: A single fox was recorded each day from March 12 through March 16. Data cards were not changed on March 13 and 14th, due to the fox identified sitting outside the burrow upon approach. The visual note of the fox was recorded at 1450 (March 13th) and 1840 (March 14th). Data cards from the cameras identify the fox on March 12th, 15th, and 16th.

Guard Den: The radio-collared pair appears healthy based on photos and telemetry. Morning telemetry on each day from March 12th through March 16th indicated that both animals were alive. Both foxes of the pair were last observed on camera at the den at 1810 March 15th, 2012.

Mid South Den: No kit fox activity observed on camera monitoring downloads.

8 West Den: No kit fox activity observed on camera monitoring downloads.

South Fence Den: A kit fox was observed on camera on March 15th at 0548. The fox was seen looking into burrow opening after numerous kangaroo rat photographs was recorded.

Genesis Desert Kit Fox
Weekly Telemetry Data

Week ending 03-23-12

ID #	Sex	Name	Frequency	Capture Site	Last Heard Date	Last Heard Time	Last Heard Location
86046	male	Lil Tom	16 - **0.1195**		03/19/12	AM Check (0710)	Guard Den vicinity
B6CAF	female	Yentil	16 - **0.044**		03/19/12	AM Check (0710)	Guard Den vicinity
86046	male	Lil Tom	16 - **0.1195**		03/20/12	AM Check (0600)	Guard Den vicinity
B6CAF	female	Yentil	16 - **0.044**		03/20/12	AM Check (0600)	Guard Den vicinity
86046	male	Lil Tom	16 - **0.1195**		03/21/12	AM Check (0610)	Guard Den vicinity
B6CAF	female	Yentil	16 - **0.044**		03/21/12	AM Check (0610)	Guard Den vicinity
86046	male	Lil Tom	16 - **0.1195**		03/22/12	AM Check (0610)	Guard Den vicinity
B6CAF	female	Yentil	16 - **0.044**		03/22/12	AM Check (0610)	Guard Den vicinity
86046	male	Lil Tom	16 - **0.1195**		03/23/12	AM Check (0610)	Guard Den Vicinity
B6CAF	female	Yentil	16 - **0.044**		03/23/12	AM Check (0610)	Guard Den Vicinity

Genesis Desert Kit Fox
Weekly Telemetry Data

Week ending 03-23-12

ID #	Sex	Name	Frequency	Capture Site	Last Heard Date	Last Heard Time	Last Heard Location	Comments
86046	male	Lil Tom	16 - 0.1195		03/19/12	AM Check (0710)	Guard Den vicinity	Both animals observed in same photo at 0607
B6CAF	female	Yentil	16 - 0.044		03/19/12	AM Check (0710)	Guard Den vicinity	
86046	male	Lil Tom	16 - 0.1195		03/20/12	AM Check (0600)	Guard Den vicinity	Both Animals observed in Photo at 1611hrs
B6CAF	female	Yentil	16 - 0.044		03/20/12	AM Check (0600)	Guard Den vicinity	
86046	male	Lil Tom	16 - 0.1195		03/21/12	AM Check (0610)	Guard Den vicinity	One animal observed on Video footage.
B6CAF	female	Yentil	16 - 0.044		03/21/12	AM Check (0610)	Guard Den vicinity	
86046	male	Lil Tom	16 - 0.1195		03/22/12	AM Check (0610)	Guard Den vicinity	Both Animals observed in Photo at 1207hrs
B6CAF	female	Yentil	16 - 0.044		03/22/12	AM Check (0610)	Guard Den vicinity	
86046	male	Lil Tom	16 - 0.1195		03/23/12	AM Check (0610)	Guard Den Vicinity	No Animals observed in Morning footage.
B6CAF	female	Yentil	16 - 0.044		03/23/12	AM Check (0610)	Guard Den Vicinity	

Genesis Solar Energy Project
Kit Fox Monitoring
Week Ending March 23, 2012
Eric German

Kit fox monitoring continued with DB Eric German and bio monitors each day. Telemetry monitoring was conducted in the morning and evening to determine that collars were transmitting at 4 pings per 5 seconds ("live" signal). Camera trap data cards were also monitored and changed as needed daily.

1KMS Den: A single fox was recorded each day from March 19 through March 23. No dead animals were found during inspection of the area.

Guard Den: The radio-collared pair appears healthy based on photos and telemetry. Morning telemetry on each day from March 19th through March 23rd indicated that both animals are alive. Both foxes of the pair were last observed on camera at the den on March 22nd at 1210.

Mid South Den: No kit fox activity observed on camera monitoring downloads. A round-tailed ground squirrel was documented investigating the burrow on March 23rd.

8 West Den: No kit fox activity observed on camera monitoring downloads.

South Fence Den: No Kit fox activity observed on camera monitoring downloads. Kangaroo rats continue to be documented at this burrow.

Genesis Desert Kit Fox
Weekly Telemetry Data

Week ending 03-30-12

ID #	Sex	Name	Frequency	Capture Site	Last Heard Date	Last Heard Time	Last Heard Location	Comments
85DDA	female	DD	16 - **0.101**	S Fence Den	N/A			
86046	male	Lil Tom	16 - **0.119**5	Access Road pole #47	03/26/12	5:50	Guard Den vicinity	normal ping (alive)
B6CAF	female	Yentil	16 - **0.044**	Access Road pole #47	03/26/12	6:00	Guard Den vicinity	normal ping (alive)
86046	male	Lil Tom	16 - **0.119**5	Access Road pole #47	03/27/12	5:55	Guard Den vicinity	normal ping (alive)
B6CAF	female	Yentil	16 - **0.044**	Access Road pole #47	03/27/12	6:10	Guard Den vicinity	normal ping (alive)
86046	male	Lil Tom	16 - **0.119**5	Access Road pole #47	03/28/12	5:45	Guard Den vicinity	normal ping (alive)
B6CAF	female	Yentil	16 - **0.044**	Access Road pole #47	03/28/12	5:45	Guard Den vicinity	normal ping (alive)
86046	male	Lil Tom	16 - **0.119**5	Access Road pole #47	03/29/12	5:50	Guard Den vicinity	normal ping (alive)
B6CAF	female	Yentil	16 - **0.044**	Access Road pole #47	03/29/12	5:55	Guard Den vicinity	normal ping (alive)
86046	male	Lil Tom	16 - **0.119**5	Access Road pole #47	03/30/12	5:50	Guard Den vicinity	normal ping (alive)
B6CAF	female	Yentil	16 - **0.044**	Access Road pole #47	03/30/12	5:45	Guard Den vicinity	normal ping (alive)

Genesis Solar Energy Project
Kit Fox Monitoring
Week Ending March 30, 2012
Eric German

Kit fox monitoring continued with DB Eric German and bio monitors each day. Telemetry monitoring of the collard pair in the guard shack vicinity was conducted each morning and indicated that the foxes are alive. Digital photo and video images from wildlife cameras were collected at the five den sites on a daily basis between March 23 and March 30.

1KMS Den: A single fox was recorded on Monday, March 26 and Tuesday, March 27. No animals were recorded on Wednesday, March 28. A single fox was visually observed on Thursday, March 29. The camera did not capture the fox on the Friday, March 30, download. The fox appears to be the same fox in each day's photos and the fox appears to be healthy. No dead animals were found during inspections of the 1 KMS den area.

Guard Den: The radio-collared pair appears to be healthy based on photos and telemetry. Morning telemetry, from March 26 through March 30, indicated that both animals are alive. Both foxes of the pair were last observed on camera at the den on March 30 and appear healthy. There have not been any pup observations.

Mid South Den: No kit fox activity was observed on camera monitoring downloads. A round-tailed ground squirrel, a raven and a kangaroo were captured on film during the past week at this den site.

8 West Den: No kit fox activity observed on camera monitoring downloads.

South Fence Den: No Kit fox activity observed on camera monitoring downloads.

Appendix C

Haz-6

Worker Environmental Awareness Program Training

LARGO CONCRETE

MARCH 2012

Genesis Site Safety Orientation Associated & WEAP

	Signature	Print Name	Company	
1	[illegible]	Ed SARNA	Associated	
2	Steve Fausmeier	STEVE FAUSMEIER	ASSOCIATED	
3	[illegible]	RON HUFF	ASSOCIATED	
4	Salomon Jaramillo	Salomon	Associated	
5	[illegible]	Luis Bernalon	ASSOCIATED	
6	[illegible]	OBELY MORRIS	Associated	
7	Antonio Esparza Escobar		Associated	
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Genesis Site Safety Orientation & WEAP

	Signature	Print Name	Company	
1	Jeff A. Miller	Jeff A. Miller	Newton	3-12-12
2	Miguel De La Rosa	Miguel De La Rosa	Newton	3-12-12
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Genesis Site Safety Orientation & INSAF

	Signature	Print Name	Company	
1	[illegible]	Jeff A. Miller	Newtron	3-12-12
2	[illegible]	Miguel De La Rosa	Newton	3-12-12
3	[illegible]	John Wyller	Newtron	3-27-12
4	[illegible]	CHRIS LA FORGE	NEWTRON	3-28-12
5				
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Appendix D

Civil-1

Schedule of Facility Design Submittals; Master Drawing and Master Specifications

Mosley, Charlyn

From: robert.dekruse@us.bureauveritas.com
Sent: Monday, April 09, 2012 11:13 AM
To: Mosley, Charlyn
Subject: Monthly Compliance Report for March 2012
Attachments: 1B855968.jpg; 12-04-09.doc

Charlyn,

I have attached the monthly update for submittals. There was one payment received in March: 3-19-12 in the amount of $117,328.64 *(See attached file: 12-04-09.doc)*

Robert

Robert DeKruse
Chief Site Inspector – Genesis Solar Project
Bureau Veritas North America, Inc.
207 East Hobsonway
Blythe, CA 92225
P: 916-415-4532 – Direct
T: 877-235-0653
F: 916-617-2068
Cell - 916-826-3202
robert.dekruse@us.bureauveritas.com
www.us.bureauveritas.com
ISO 9001:2000 Certified

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March Monthly Report of CBO Activities
Prepared on 12-04-09 by Robert DeKruse

GEN-6: Approved Special Inspectors – *current month in bold*

- Scott H. Vacula, PE – Designated Project Manager/Lead
- Aklilu Y. Estifanos – Soils, Reinforced Concrete, Structural Steel & Bolting, Welding
- Kenneth Crump – Soils, Reinforced Concrete
- Wayne Brockman – Soils (verified credentials)
- Hisham Rakban – Concrete, soils, asphalt
- Robert Orta – Soils
- Sean Hodges – Soils, concrete/masonary

GEN-7: Facility Design Discrepancy Documentation

- RFIs changing approved design or construction must be approved by CBO

GEN-8: As-builts, CBO Notification of Completion and Compliance

- Due within 15 days upon completion of project work

CIVIL-1: CBO Submittals-Drainage and Grading, Statement of Submittal
The following submittals have been approved by the CBO: *current month in bold type*

- CIVIL-1-1.0 Civil Engineering Criteria
- CIVIL-1-1.0X1 Civil Engineering Criteria
- CIVIL-1-2.0 Access Road Package
- CIVIL-1-2.0x1 Access Road Package
- CIVIL-1-2.0x2 Access Road Package
- CIVIL-1-3.0 Geotechnical Engineering Report
- CIVIL-1-3.1 Supplemental Geo Report
- CIVIL-1-3.2 Slope Stability Geotechnical Engineering Report
- CIVIL-1-4.0 Temporary Tortoise Fence
- CIVIL-1-5.0 Preliminary Site Preparation Package
- CIVIL-1-6.0 Caltrans Encroachment Pkg
- CIVIL1-7.0 Grading and Drainage Drawings
- CIVIL-1-8.0 Reports and Studies
- CIVIL-1-9.0 Channel Drawings and Reports
- CIVIL-1-10.0 Solar Field 1 Site Grading Drawings
- CIVIL-1-11.0 Solar Field 2 Site Grading Drawings
- CIVIL-1-11.0X1 Solar Field 2 Site Grading Drawings
- CIVIL-1-12.0 Site Preparation Drawings
- CIVIL-1-13.0 Finish Grading Power Block, Unit 1 Paving
- CIVIL-1-500-Tempory Double Gate

Bureau Veritas North America, Inc.
180 Promenade Circle, Suite 150
Sacramento, CA 95834

Main: (916) 617-2028
Fax: (916) 617-2068
www.us.bureauveritas.com

CIVIL-3: CBO Site Grading Inspections

- No compaction discrepancies this month from Special Inspection Company, PSI
- Cultural and Native American Monitors on site daily
- Grading and drainage being performed to approved plans and specifications

CIVIL-4: Final Grading Plans

- Due within 30 days upon completion of the erosion and sediment control mitigation and drainage work.

ELEC-1: Submittal – Electrical Equipment and Systems 480 Volts or higher
The following submittals have been approved by the CBO, *current month in bold type*

- ELEC-1-1.0 Gen set for Access Road
- ELEC-1-1.1 Gen set for Access Road
- ELEC-1-2.0 Temporary Panel for TW2
- ELEC-1-3.0 Telephone and Communication Under Ground Conduit Route
- ELEC-1-4.0 33kV Temporary Construction Bid Package
- ELEC-1-5.0 33kV Data Sheet and Specifications
- ELEC-1-6.0 Symbol and Legend
- ELEC-1-7.0 Installation Detail and Assembly Drawings
- ELEC-1-8.0 Electrical Specifications
- ELEC-1-9.0 12kV Specifications (12.47 KV Pad Mounted Transformer)
- ELEC-1-9.0x1 12.47 KV Specification
- ELEC-1-9.0x2 Electrical Specifications
- ELEC-1-10.0 Grounding Plans
- ELEC-1-11.0 Electrical Specifications (460 V Induction Motors)
- ELEC-1-12.0 Electrical Specifications (600 V Power and Control Cable)
- ELEC-1-13.0 Electrical Drawings for Assembly
- ELEC-1-14.0 4160 V Diesel Generator
- ELEC-1-15.0 Underground Conduit Cable Drawings
- ELEC-1-16.0 Electrical Grounding
- ELEC-1-17.0 Electrical Cable Schedule
- ELEC-1-17.0x1 Electrical Cable Schedule
- ELEC-1-18.0 Electrical Distribution Board Schedule
- ELEC-1-19.0 Electrical Cable Block Diagrams
- ELEC-1-20.0 Standard Detail Assembly Drawings
- ELEC-1-21.0 Specification Isolated Phase Bus Duct
- ELEC-1-22.0 12kv temp power construction power
- ELEC-1-23.0 Electrical Specifications
- ELEC-1-24.0 Embedded Conduit Stub Out Plan 1st-TRB-0100 foundation

- ELEC-1-14.0x1 Embedded Conduit stub Out Plan
- ELEC-1-25.0 Electrical Grounding Plans Power Block 1
- ELEC-1-26.0 Electrical Underground Plans
- ELEC-1-26.0x1 Electrical Underground Plans
- ELEC-1-27.0 Electrical Conduit Schedule Power Block 1 and Solar Field 1
- ELEC-1-28-0 Electrical Area Classification Plans Power Block 1
- ELEC-1-29.0 Electrical Specification Unit Auxiliary Transformer
- ELEC-1-30.0 Electrical Equipment List
- ELEC-1-31.0 Electrical Specifications

MECH-1: CBO Submittal – Plan Piping and Plumbing System Inspection Approvals, ***current month in bold type:***

- MECH-1-1.0 Piping Specification
- **MECH-1-2.0 Piping Stress Analysis**
- MECH-1-500 Application for AMMC Design and Construction Process Piping
- MECH-1-501 AMMC ACC Steam Duct

MECH-2: CBO and Cal-OSHA Submittal – Pressure Vessel

- MECH-501 AMMC Design and Construction of Unfired Steam Boilers

STRUC-1: CBO Submittals – Major Structure of Facility Design Component
The following submittals have been approved by the CBO, ***current month in bold type*****:**

- STRUC-1-1.0 Sener Structural Drawings
- STRUC-1-2.0 Structural Specification
- STRUC-1-2.0x1 Structural Specification
- STRUC-1-3.0 Concrete Solar Foundation Drawings
- STRUC-1-7.0 Drilled Caisson Specification
- STRUC-1-8.0 Structural Standard Drawings
- STRUC-1-9.0 Drilled Reinforced Concrete Caissons Testing
- STRUC-1-10.0 Drilled Reinforced Concrete Caissons
- STRUC-1-11.0 Construction Trailer Complex
- STRUC-1-12.0 Common Area Assembly Line Building Drawings
- STRUC-1-500 Application for Alternate Mat and Methods of Caisson Construction
- STRUC-1-13.0 Steam Turbine Foundation
- STRUC-1-14.0 Structural Concrete Drawings and Calculations
- **STRUC-1-14.0X1 Structural Concrete Drawings and Calculations**
- STRUC-1-15.0 Solar Field 2 Caisson Schedule
- STRUC-1-16.0 Solar Field 2 Foundation Location
- STRUC-1-17.0 Power Block 1 Main Pipe rack Foundation Plans
- STRUC-1-17.1 Power Block 1 Main Pipe rack Structural Calculations
- STRUC-1-17.2 Power Block 1 Main Pipe rack plans

- STRUC-1-18.0 Power Block Unit 1 Water Sump Foundation & Calculations
- STRUC-1-18.0x1 Power Block Unit 1 Water Sump Foundation & Calculations
- STRUC-1-19.0 Solar Field 1 Misc. Pipe Support Plans Foundation Steel Schedule
- STRUC-1-22.0 Power Block 1 Foundation Location Plan
- **STRUC 1-20.0 Economizer, Reheater, Superheater Foundation Plans, Elevation & Calcs.**
- **STRUC 1-21.0 Feedwater Heater Foundation PB1**
- STRUC-1-23.0 Unit 1 Power Block Turbine Exhaust Duct Support Foundation & Calc.
- STRUC-1-24.0 Alternate Panel Support Foundations and Calcs
- **STRUC 1-25.0 Power Block Vessels – 1HR-TK-0200 A-B-C Fdn Plans-Elev & Calcs**
- **STRUC 1-26.0 Solar Field 1 Bridges**
- **STRUC 1-26.0X1 Solar Field Bridges**
- STRUCT-1-504 AMMC Structural Steel Substitute
- STRUCT-1-505 Structural Observation Report Form
- Struct-1-506 AMMC Concrete pile Transverse Reinforcing Solar Field

STRUC-3: CBO Submittal – Design Changes, Revised Drawings, Specs and Calcs

- DCN-0-1CD-004 Changed Assembly Building concrete aprons to landings

STRUC-4: 2007 CBC Compliance for Toxic or Hazardous Materials

- Waste-4-1.0 Waste Management Plan

TSE-1: CBO and CPM Submittal – Schedule of Design Submittals

- No CBO submittals this month

TSE-4: CBO Submittal – Power Plant Switchyard, Outlet Line and Termination Design Plans

- No CBO submittals this month

Appendix E

Cultural Monitor Reports

Cul-8 and Cul-13

Construction Monitoring Plan and Flag and Avoid

Due to proprietary and confidential subject matter, the following information is secured and held under confidential cover

Appendix F

Safety Reports and Incidents

Worker Safety-3

Construction Safety Supervisor – Staff Assignment

Genesis solar construction

March 5, 2012

Weekly Newsletter

SPOTTERS

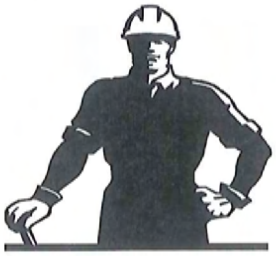
MEET THE SAFETY COMMITTEE

Fernando Cruz

Jeremy Bartel

Oscar Cabrera

Shawn Palmer



Make the RIGHT Choice

I'm sure everyone here is aware of the dangers of blind backing. Not only is there the possibility of injuring someone, but of causing property damage. Today we're going to review safety measures necessary to avoid such accidents.

SPOTTERS -AN IMPORTANT REQUIREMENT

The first requirement for safe backing is to have a spotter, someone to direct the driver. A spotter is necessary when the driver or operator does not have a full view of the backing path. This holds true for any vehicle or piece of equipment, whether it's a batch truck backing up to a paver, a mixer truck backing into a hopper or hoist bucket, or a materials truck making a delivery. This is the important rule for drivers and operators: "Don't back up unless you have a spotter directing your movement." It's an easy rule to remember. The important thing is to obey it.

THE SPOTTER'S RESPONSIBILITIES

Let's talk about the spotter. This person has to watch out for others as well as for himself, and make sure the vehicle doesn't damage property. This may appear easy. It seems that all the spotter has to do is to direct a vehicle to back up when the path is clear of persons and objects. But there are dangers involved.

Sometimes when you're a spotter, you may have to pass behind a vehicle. If so, stop the vehicle first. As you're passing behind it, extend your hand at arm's length and place it against the back of the vehicle. Then if the vehicle starts to move because the driver's foot slips off the brake or clutch pedal, you'll be able to feel the movement and get out of the way.

When directing the driver, stand at the rear but well to the driver's side of the vehicle. This gives you an unobstructed view of the entire backing path. And the driver can see you clearly. It's important that the driver understands your signals. So get together with the driver before any backing and explain the signals you will use. In this way you can be reasonably sure there will be no misunderstanding. Always be sure to use the same signals for the same moves. Hand signals are much better than vocal signals. Because of noise, a shouted signal may not be heard or may be misunderstood.

BE SURE YOU'RE SEEN

Always be sure that you can be seen. In addition to standing well to the driver's side of the vehicle, wear a fluorescent vest. At night, don't blind the driver by shining your flashlight in the rearview mirror. And, day or night, when you walk backwards, be careful not to trip.

SPOTTERS AND DRIVERS WORK TOGETHER

Togetherness was never so important as when it comes to spotters and drivers of heavy equipment. Working as a team, they not only protect property but the lives of their fellow workers as well.

Genesis solar construction

March 12, 2012

Weekly Newsletter

Goggles — Gloves

What is quality?
In its broadest sense, quality is a degree of excellence: the extent to which something is fit for its purpose.
In the narrow sense, product or service quality is defined as:

- *Conformance with requirement*
- *Freedom from defects or contamination*
- *Simply a degree of customer satisfaction.*

In quality management, quality is defined as all of the characteristics of a product or service that affect its ability to do its stated and implied functions. Quality is also rapidly embracing the nature or degree of impact an organization has on its stakeholders, environment and society.

Goggles/ Face Shield

There is nothing new about wearing goggles or face shield for eye protection. Every job is using them to a greater or lesser degree. But the question always arises as to who should not be asked to wear eye protection.

There is no job throughout construction that does not carry a potential eye hazard. In analyzing eye injury cases, it is found that the most common are caused from foreign bodies in the eye, flying objects, dust, and horseplay. The jobs include office workers, laborers, operators, warehousemen, millwrights, drivers, mechanics, carpenters, and so on down the line.

Actual reported cases describe accidents in which a laborer was cleaning out one thing or another when some of the contents of a chemical nature splashed in his eyes and resulted in the loss of his sight. Goggles were not worn, since they were not considered necessary for that type of work or worker. But follow this injury and others like it and you will find that most could have been prevented if the right eye protection had been used.

Make the RIGHT Choice

There's No Such Thing As Being Too Safe!

Gloves

Your hands are your wage-earners.

Hands are hurt more often than any other part of the body.

Hand injuries don't have to occur. As talented as your hands are, they can't think, they're your servants, and it is up to you to think and keep them out of trouble.

Be sure you wear the right kind of gloves for the particular kind of work you are doing.

When you wear gloves, you aren't trusting to luck and you're not taking unnecessary chances.

Wear gloves when you are doing a job that needs them, but, not around moving machinery.

Time spent in preparing your hands for the job will not only save trouble for you but will probably save time in doing the job.

Genesis solar construction

March 19, 2012

Weekly Newsletter

Vehicles

What is a Spill? A spill can be chemical or petroleum in nature. Spills may be due to releases of crude oil from tankers, offshore platforms, drilling rigs and wells, as well as spills of refined petroleum products (such as gasoline, diesel) and their by-products. A spill may also be chemical in nature released from barrels, drums, day tanks and vessels. Any oil, hazardous material or hazardous chemical that is released to ground in any quantity must be reported to your supervisor where a spill report will be filled out and submitted to the Project Compliance Manager.

Understanding the Danger

If vehicle safety practices are not observed at your site, you risk being pinned between construction vehicles and walls, struck by swinging backhoes, crushed beneath overturned vehicles, or other similar accidents. If you work near public roadways you risk being struck by trucks or cars.

Avoiding the Hazards

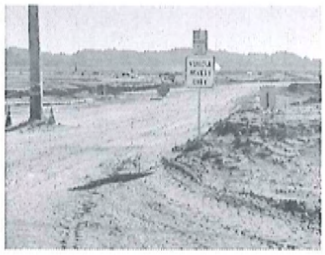
- Wear seat belts that meet OSHA standards, except on equipment that is designed only for standup operation, or that has no rollover protective structure.
- Check vehicles before each shift to assure that all parts and accessories are in safe operating condition.
- Do not drive a vehicle in reverse gear with an obstructed rear view, unless it has an audible reverse alarm, or another worker signals that it is safe. Use a spotter whenever necessary
- Drive vehicles or equipment only on roadways or grades that are safely constructed and maintained.
- Do not drive and text or talk on the phone.
- Make sure that you and all other personnel are in the clear before using dumping or lifting devices.
- Lower or block bulldozer and scraper blades, end-loader buckets, dump bodies, etc., when not in use, and leave all controls in neutral position.
- Set parking brakes when vehicles and equipment are parked, and chock the wheels if they are on an incline.
- All vehicles must have adequate braking systems and other safety devices.
- Haulage vehicles that are loaded by cranes, power shovels, loaders, etc., must have a cab shield or canopy that protects the driver from falling materials.
- Do not exceed a vehicle's rated load or lift capacity.
- Do not carry personnel unless there is a safe place to ride.
- Use traffic signs, barricades, or flaggers when construction takes place near public roadways.
- Workers must be highly visible in all levels of light. Warning clothing, such as orange vests, are required and must be of reflective material.

Genesis solar construction

March 26, 2012

Weekly Newsletter

Falling/Flying Objects



Housekeeping Notes:

- *The office area access road to the south of Trailer City is to be used for light vehicles only! Delivery trucks and large equipment need to access the area by the north access road.*
- *The Fire Lane between Trailer City and big green tanks to the West must remain open and free of parked vehicles. The Fire Lane is posted as a visual reminder.*
- *For the purpose of Daylight and Dusk hours for site speed limits:*

***6:30** am is to be considered Sunrise.*

***7:00** pm will be considered Sunset*

These times will be adjusted to coincide with seasonal change as needed.

Make the RIGHT Choice

Understanding the Danger You are at risk from *falling* objects when you are beneath cranes, scaffolds, etc., or where overhead work is being performed. There is a danger from *flying* objects when power tools, or activities like pushing, pulling, or prying, may cause objects to become airborne. Injuries can range from minor abrasions to concussions, blindness, or death.

Avoiding the Hazards In general, wearing hardhats, stacking materials to prevent sliding, falling, or collapse, and using protective measures such as toe boards and debris nets helps minimize the potential for injury.

Power Tools, Machines, etc.

- Use safety glasses, goggles, face shields, etc., where machines or tools may cause flying particles.
- Inspect tools, such as saws and grinders, to insure protective guards are in good condition.
- Make sure you are trained in the proper operation of power tools.

Cranes and Hoists

- Avoid working underneath loads being moved.
- Barricade hazard areas and post warning signs.
- Inspect cranes and hoists to see that all components, such as wire rope, lifting hooks, chains, etc., are in good condition.
- Do not exceed lifting capacity of cranes and hoists.

Overhead Work

- Secure tools and materials to prevent them from falling on people below.
- Barricade hazard areas and post warning signs.
- Use toe boards, screens, or guardrails on scaffolds to prevent falling objects.
- Use debris nets, catch platforms, or canopies to catch or deflect falling objects.

Compressed Air

- Reduce compressed air used for cleaning to 30 psi, and only use with appropriate guarding and protective equipment.
- Never clean clothing with compressed air.

MARCH 2012

Largo concrete

Genesis Site Safety Orientation & WEAP

	Signature	Print Name	Company	
1	Joe Martelli	Joe Martelli	Twin Eagle Dist.	
2	[illegible]	Jeffrey M Tyler	Twin Eagle Dist	
3	[illegible]	Andrew Colmore	Hayward Baker / Anderson	
4	[illegible]	Felix Orozco	Largo Concrete Inc	
5	[illegible]	Lupita Luna	Largo Concrete	
6	[illegible]	DAVID SWANN	LARGO CON.	
7	[illegible]	LEW DUNN	ANDERSON TRUCKING	
8	[illegible]	DAVID MIX	ASSOCIATED Ready-Mix	3-8-12
9	[illegible]	Zacarias Reyes	PCS	3/12/12
10	[illegible]	JASON WICKER	PCS	3/12/12
11	[illegible]	Henry P. Diaz	PCS	3/12/12
12	[illegible]	Anton Cornell	Largo	3-13-12
13	[illegible]	John Vigil, JR.	Largo	3-13-12
14	[illegible]	Domonic Maggino	Largo	3-13-12
15	[illegible]	Paul Nieves	Largo	3/13/12
16	[illegible]	Jason Carr	Largo	3-13-12
17	[illegible]	ERIC WHITTEN	PCS	3/13/12
18	[illegible]	Joe Walker	Parker Oil	3-13-12
19	[illegible]	Edward Martin	Largo	3-14-12
20	[illegible]	Derek Barrera	Howard Anderson	3/19/12
21	[illegible]	George Del Rio	Largo	3/19/12
22	[illegible]	MIKE RUBIO	PCS	3/19/12
23	[illegible]	Hector Aguilera	PCS	3/19/12
24	[illegible]	Bobby Shuptrine	LARGO	3-19-12
25	[illegible]	Justin Lee	Largo con.	3-20-12
26	[illegible]	AARON CORONA	Largo	3-26-12
27	[illegible]	Larry Peterson	Largo	3-26-12
28	[illegible]	David Pelino	Largo	3-26-12
29	[illegible]	Jose Hernandez	Associated	3-27-12
30	[illegible]	HILARIO G	N. M. N	3-27-12
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LARGO CONCRETE

MARCH 2012

Genesis Site Safety Orientation Associated

& WEAP

	Signature	Print Name	Company	
1	[illegible]	Ed SARNA	Associated	
2	[illegible]	STEVE FAUSNEAUCH	ASSOCIATED	
3	[illegible]	RON HUFF	ASSOCIATED	
4	Salomon Jaramillo	Salomon	Associated	
5	[illegible]	Luis Bernalon	ASSOCIATED	
6	[illegible]	OBELY MORRIS	Associated	
7	Antonio Aguirre Escobar		Associated	
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Workers Environmental Awareness Plan : Training Roster / SAFETY

Genesis Solar Energy Project

Instructor:

Name : Print	Signature	Company Name	Date
John D Peterkin		AECOM (SWCA)	2/28/12
Ken Griffith		Bureau Veritas	2/29/12
Suzanne Guest		SWCA	2/28/12
Scott Busa		NextEra	2/28/12
Zachary Zurita		Guards Mark	3/6/12
Earl Geldar		AECOM	3/7/12
Mary DeLaO			
Paul Murphey		SWCA	3/7/2012
Frank Raiude		LU 36H	3/7/12
Zach Green		Guards Mark	3/9/12
Steve Hartwell		FPL Natural	3/9/12
Matt Kedziora		AECOM	3/12/12
Ric Buchanan		Bureau Veritas	3/12/12
Chris Jensen		Fluor	3/13/12
Todd Stribley		DOE	3/14/12
James Nathan Peters		Blanco Enterprises	3/16/12
Mark Lopez		Sabana Cultural	3/19/12
Raul Hernandez		WT	3/23/12

Laurie 4
ecsu 3
WO 18
SBC 1

Genesis Site Safety Orientation # NEAO

	Signature	Print Name	Company	
1	Jeff A. Miller	Jeff A. Miller	Newton	3-12-12
2	Miguel De La Cosa	Miguel De La Cosa	Newton	3-12-12
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Genesis Site Safety Orientation & NEW

	Signature	Print Name	Company	
1	Jeff A. Miller	Jeff A. Miller	Newton	3-12-12
2	Miguel De La Rosa	Miguel De La Rosa	Newton	3-12-12
3	[illegible]	John Miller	Newton	3-22-12
4	[illegible]	CHRIS LA FORGE	NEWTRON	3-28-12
5				
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Appendix G

Miscellaneous Submittals and Information

Genesis Daily Well Readings - Well Pads in acre feet x .001

New meters 10/21	Serial No#: 11-07803	Serial No#: 11-07804	Serial No#: 11-07805	Serial No#: 022037 Currently not in use	Sundays not worked so no meter readings
	All McCalls Propeller Meter McCrometer Flow Meters			Hendley Nitro Performance	
Date	Well 0	Well 1	Well 2	Front Well Guage (in gal)	Comments
Thur. 03/01	59834	75738	131531		
Fri. 03/02	60445	76224	132256		
Sat. 03/03	60618	76335	132256		
Sun. 03/04	60618 acre feet x .001	76335 acre feet x .001	132256 acre feet x .001	78762 00 (out of service)	Saturday reading 03/03
Mon. 03/05	61231	76651	133429		
Tues. 03/06	62143	77454	134977		
Wed. 03/07	62143	77454	134977		
Thur. 03/08	62614	77781	134977		
Fri. 03/09	62614	77851	135702		
Sat. 03/10	62614	77970	137477		
Sun. 03/11	62614 acre feet x .001	77970 acre feet x .001	137477 acre feet x .001	78762 00 (out of service)	Saturday reading 03/10
Mon. 03/12	65749	78244	138950		
Tues. 03/13	66796	78553	140283		
Wed. 03/14	67553	79601	141129		
Thur. 03/15	68488	80093	141843		
Fri. 03/16	68884	80501	142851		
Sat. 03/17	69282	80501	143711		
Sun. 03/18	69282 acre feet x .001	80501 acre feet x .001	143711 acre feet x .001	78762 00 (out of service)	Saturday reading 03/17
Mon. 03/19	69811	80501	144601		
Tues. 03/20	70609	80914	146028		
Wed. 03/21	71412	81320	147168		
Thur. 03/22	72014	81906	147636		
Fri. 03/23	72297(repairing pump)	82397	148125		
Sat. 03/24	72297(repairing pump)	82490	148337		
Sun. 03/25	72297 acre feet x .001	82490 acre feet x .001	148337 acre feet x .001	78762 00 (out of service)	Saturday reading 03/24
Mon 03/26	72417	83142	149678		
Tues. 03/27	72557	83880	150620		
Wed. 03/28	73098	84464	151095		
Thur. 03/29	74774	85629	151681		
Fri. 03/30	75216	86720	152195		
Sat. 03/31	75216	86720	152195		Friday reading 03/30

Genesis Daily Site Report

March 1, 2012

Safety: No accidents or injuries.

There was a near miss reported today in the civil dirt work area where a Monitor was reported to be 15 feet away from a scraper. Safety Coordinators from AECOM and Sukut were on the site and able to quickly determine a resolution. A stand down Job Hazard Analysis was conducted with all Operators and Monitors.

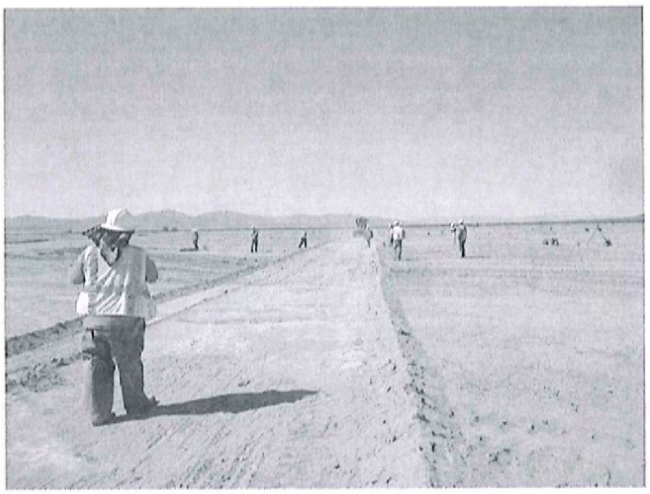
The resolution came from all employees in the work area, it was swift and satisfactory to all.

Work resumed without incident.

Safety Topic of the Week: "Eye Protection"

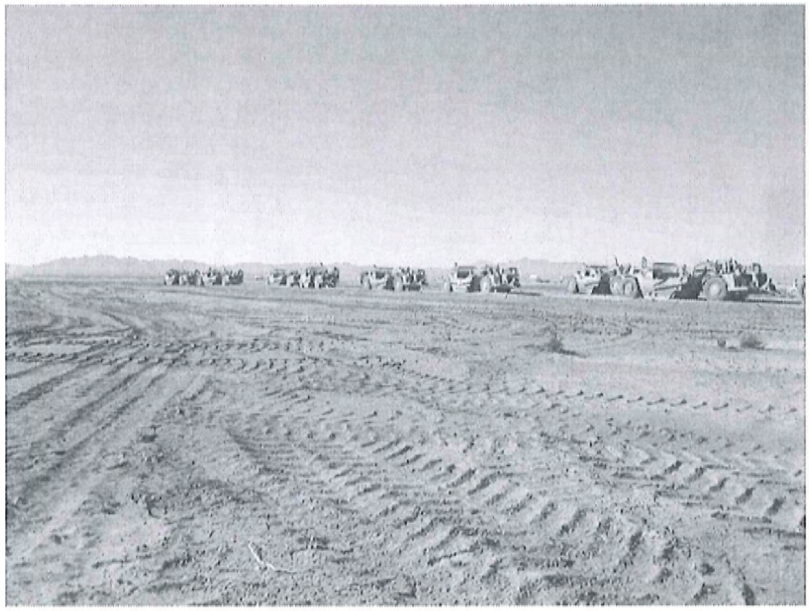
Weather Conditions: Mostly Sunny, Temp – High 77; WSW Winds at 10-20 mph.

Site Compliance: The Controlled Grading Plan in Unit 1 continued.



Items completed and working:

1. Site Preparation (K008): Cut operations continued in Block 7 with fill being placed in Block 9 of Unit 2. Finish grade continued in Blocks 9 and 10 of Unit 2, along with the channels. Channel crossing reinforcing steel and wall forming continued.



2. PSI (K007): Performed field density testing in Solar Field 2; Concrete sample collecting and testing for Caissons in Unit 1. Testing footing subgrade in Power Block 1.

3. Largo (K013): Continued drilling & pouring in Block 1. All caissons are now poured in Block 7. Layout was in Block 8. Continued setting control points in Block 1 of Unit 2. Layout will start in Unit 2 Monday morning. Largo is off tomorrow.

4. Blythe Power Constructors (K100): Completed alignment of the first loop of Pylons in Block 5. Continued receiving materials.

5. Sukut (K010): Full time standing water mitigation and dust control on the main access road activities are ongoing.

6. Newtron (K014): Continued installing power cabling and fiber optic in Block 6. Continued backfilling trenches at the east end of Block 6. Prepping wire and cable coupons for Block 7.

7. PAR Electric (K012): Trenched from the 12KV drop to the assembly building.

8. Largo (K015): Unit 1 rebar placing continued for the piperack foundations. The Clean water sump was dug today and excavations for the ACC in Unit 1 resumed today. In unit 2 the second load of ACC rebar was unloaded with layout starting Monday. Largo is off tomorrow.

9. Trailer City: Finished installation on the double wide trailer for SPX. Continued working on exterior lighting and electrical terminations on trailers.

10. Blythe Power Constructors (K011): No Activity.

11. SPX Technologies (K057): No Activity.

Personnel on Site

Genesis Team	20
NAM	9
SWCA	2
Sukut (K010)	4
Sukut (K008)	64
PSI Testing (K007)	2
Terracon	1
AECOM	29
Guardsmark (K005)	3
Largo (K013)	74
Largo (K015)	23
Williams Scotsman	2
BPC (K100)	18
BPC (K011)	0
BATZ	2
Sener	3
Newtron	18
Holt Group	2
SPX Technologies(K057)	0
Whiting Turner (K067)	0
Baker Electric (Trailers)	2
PAR	2
Total	**280**

Genesis Daily Site Report

March 2, 2012

Safety: No accidents or injuries.

Safety Topic of the Week: "Eye Protection"

Weather Conditions: Windy, Temp – High 67; N Winds at 20-30 mph.

Site Compliance: The Controlled Grading Plan in Unit 1 was cancelled due to the wind. Work will resume tomorrow.

Items completed and working:

1. Site Preparation (K008): No work due to wind. Minimal work tomorrow.

2. PSI (K007): Performed field density testing in Solar Field 2; Concrete sample collecting and testing for Caissons in Unit 1. Testing footing subgrade in Power Block 1.

3. Largo (K013): No major activities today, performed clean-up in the morning.

4. Blythe Power Constructors (K100): Received materials.

5. Sukut (K010): Dust control on the main access road.

6. Newtron (K014): Continued installing power cabling and fiber optic in Block 6. Continued backfilling trenches in Block 6. Worked a half day due to wind.

7. PAR Electric (K012): Laid electrical ducts and started backfill and compaction of the electrical trench from the 12KV drop to the assembly building.

8. Largo (K015): No work today.

9. Trailer City: Continued working on exterior lighting. All electrical terminations on trailers are now complete. Received remaining office furniture. Setting up restroom trailer tomorrow.

10. Blythe Power Constructors (K011): No Activity.

11. SPX Technologies (K057): No Activity.

Personnel on Site

Genesis Team	17
NAM	9
SWCA	2
Sukut (K010)	4
Sukut (K008)	12
PSI Testing (K007)	2
Terracon	1
AECOM	29
Guardsmark (K005)	3
Largo (K013)	10
Largo (K015)	0
Williams Scotsman	0
BPC (K100)	18
BPC (K011)	0
BATZ	2
Sener	3
Newtron	18
Holt Group	2
SPX Technologies(K057)	0
Whiting Turner (K067)	0
Baker Electric (Trailers)	3
PAR	4
Total	**139**

Genesis Daily Site Report

March 5, 2012

Safety: No accidents or injuries.

Genesis Safety Committee met today. Elections of the Committee Chair Persons and Note Taker took place.

Safety Topic of the Week: "Spotters"

Weather Conditions: Sunny, Temp – High 82; E Winds at 5 mph.

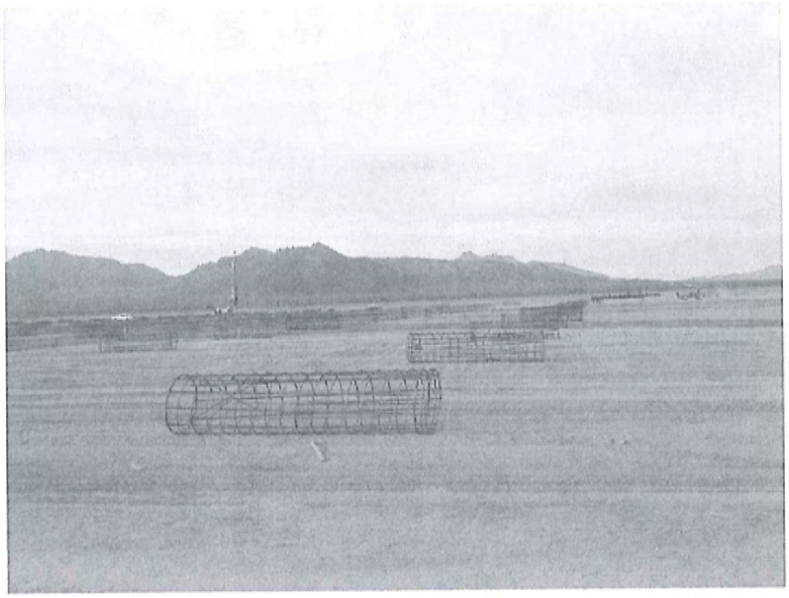
Site Compliance: The Controlled Grading Plan in Unit 1 continued today.

Items completed and working:

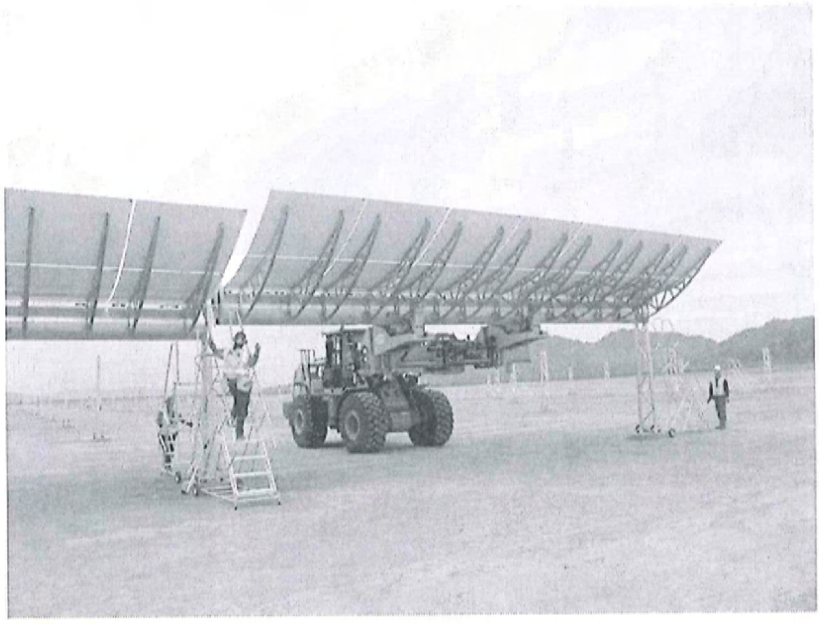
1. Site Preparation (K008): Cut operations continued in Block 8 with fill being placed in Block 9 of Unit 2. Finish grade continued in the channels and Block 8 of Unit 2. Channel BC wing-wall pours and Channel D arch culvert installations continued.

2. PSI (K007): Performed field density testing in Solar Field 2; Concrete sample collecting and testing for Caissons in Unit 1, and Channel BC Wingwalls. Testing footing subgrade in Power Block 1.

3. Largo (K013): Continued pouring and drilling with all crews in Block 1 of Unit 1. Layout was working in Block 1 of Unit 2. The newly designed caisson rebar cages were getting spread out today and a load of bolts arrived. Excavations of the solar field misc pipe supports is scheduled to take place this week, with the first pour taking place next week.



4. Blythe Power Constructors (K100): Installed the first 6 SCE's in Block 5 and received materials.



5. Sukut (K010): Dust control on the main access road.

6. Newtron (K014): Started trenching on the West end of Block 7. Installing grounding and performing cable & fiber testing in Block 6.

7. PAR Electric (K012): Trenching powerfeed raceway to support the Assembly Building, setting hand holds, and blanketing cable with concrete/red dye/backfilling and compacting the electrical trench from the 12KV drop by trailer city to the assembly building.

8. Largo (K015): Completed footing excavations on the ACC in Unit 1. Formed up pedestals and compacted footing bottoms in the piperack in unit 1. Next concrete pour is scheduled for Wednesday. Received a load of rebar for the Feedwater heater foundation. The Layout crew worked in Unit 2 on the ACC.

9. Trailer City: Continued working on exterior lighting.

10. Blythe Power Constructors (K011): No Activity.

11. SPX Technologies (K057): No Activity.

Personnel on Site

Genesis Team	17
NAM	7
SWCA	2
Sukut (K010)	2
Sukut (K008)	64
PSI Testing (K007)	3
Terracon	1
AECOM	20
Guardsmark (K005)	3
Largo (K013)	75
Largo (K015)	25
Williams Scotsman	0
BPC (K100)	18
BPC (K011)	0
BATZ	2
Sener	3
Newtron	18
Holt Group	2
SPX Technologies(K057)	0
Whiting Turner (K067)	0
Baker Electric (Trailers)	3
PAR	3
Total	**268**

Genesis Daily Site Report

March 6, 2012

Safety: No accidents or injuries.

High winds onsite caused hazardous working and driving conditions

Safety Topic of the Week: "Spotters"

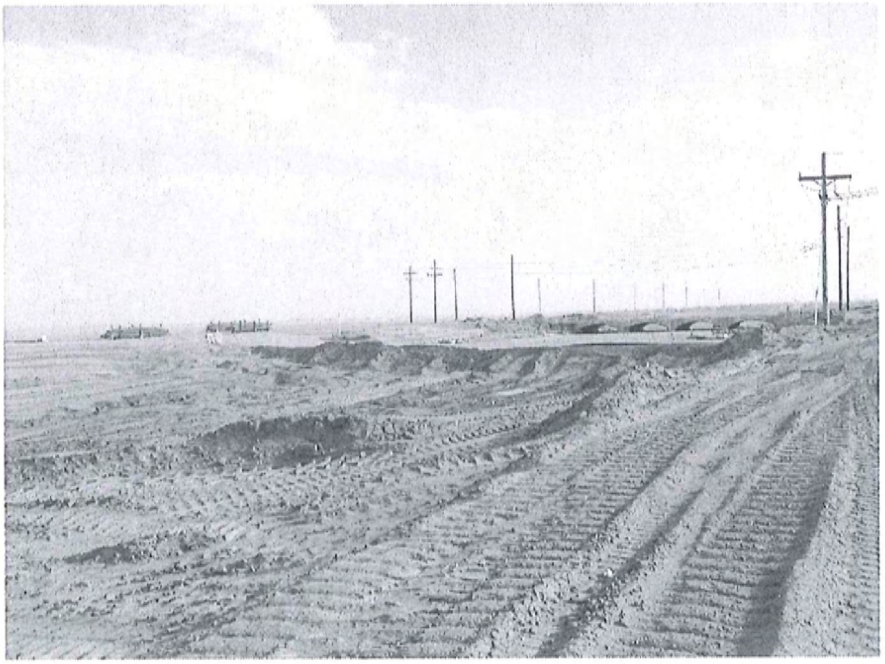
Weather Conditions: Hazy Sunshine, Temp – High 83; SW Winds at 25 to 35 mph with gusts of 40 to 50 mph.

Site Compliance: Environmental - Christopher Meyer, the project manager for BLM/BV, was on site today.

Trash pickup around plant along fence line.

Items completed and working:

1. Site Preparation (K008): Cut operations continued in Block 8 with fill being placed in Block 9 of Unit 2. Fill will be placed in the Common area starting tomorrow afternoon. Finish grade continued in Blocks 8, 9, and the channels of Unit 2. Channel crossing reinforcement and forming continued. All operations were suspended today at 10:30 a.m. due to high winds.



2. PSI (K007): Performed field density testing in Solar Field 2; Concrete sample collecting and testing for Caissons in Unit 1. Testing footing subgrade in Power Block 1.

3. Largo (K013): Continued pouring and drilling with all crews in Block 1 of Unit 1. Layout was working in Block 1 of Unit 2. Excavations of the solar field misc pipe supports are scheduled to take place Thursday this week or Monday next week, with the first pour taking place next week. Crews were shut down late morning due to the wind.

4. Blythe Power Constructors (K100): Installed 1 more SCE bringing their total to 7 before being stopped by the high winds. Continuation of assembly of SCE's in the Assembly Building to fill all jigs and trailers that could be kept inside. Received materials throughout the day.

5. Sukut (K010): Dust control on the main access road.

6. Newtron (K014): Trenching Ring 7 of Unit 1, installation of grounding & fiber in Ring 7 of Unit 1, testing power & fiber in Ring 6 of Unit 1.

7. PAR Electric (K012): Completed 120/240V drop material receiving connex – powered up, Trenching/Backfill/Compaction 12kV to support Assembly Building, Completed cable pull/terminations/testing at Assembly Building – powered up.

8. Largo (K015): Started footing excavations on the economizers in Unit 1. Placed rebar and compacted footing bottoms in the piperack in unit 1. Rebar was also placed in the blowdown/oily Water Sump. Next concrete pour is scheduled for Wednesday afternoon. Received a load of rebar for the Feedwater heater foundations. The Layout crew worked in Unit 1. Crews were shut down at noon due to the wind.

9. Trailer City: Completed exterior lighting, working on water pump circuit to support restroom trailer.

10. Blythe Power Constructors (K011): No Activity.

11. SPX Technologies (K057): No Activity.

Personnel on Site

Genesis Team	24
NAM	7
SWCA	2
Sukut (K010)	2
Sukut (K008)	62
PSI Testing (K007)	3
Terracon	1
AECOM	20
Guardsmark (K005)	3
Largo (K013)	71
Largo (K015)	25
Williams Scotsman	0
BPC (K100)	18
BPC (K011)	0
BATZ	2
Sener	4
Newtron	18
Holt Group	2
SPX Technologies(K057)	0
Whiting Turner (K067)	0
Baker Electric (Trailers)	3
PAR	8
Total	**275**

Genesis Daily Site Report

March 7, 2012

Safety: No accidents or injuries.

BV Safety made a site visit today.

Safety Topic of the Week: "Spotters"

Weather Conditions: Clear, Temp – High 63; NNW Winds at 15 mph.

Site Compliance: The CEC made a site visit today, Roger Johnson (Director), Mary Dyas and Chris Marxim.

Trash cleanup on Unit 1 South fence and Unit 2 North fence (debris scatter was due to high winds yesterday and throughout the night).

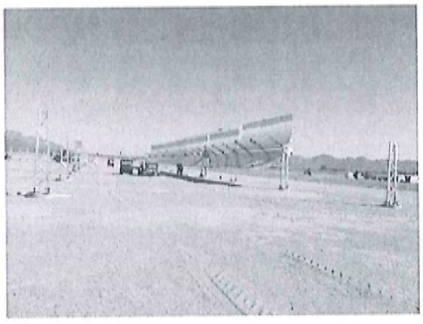
Items completed and working:

1. Site Preparation (K008): All grading operations were suspended today due to high wind conditions. Full production is planned for Saturday due to the wind delays this week. Sukut performed a final topographic survey of Unit 2 today for finer balance quantities.

2. PSI (K007): Performed field density testing in Solar Field 2; Concrete sample collecting and testing for Caissons in Unit 1. Testing footing subgrade in Power Block 1.

3. Largo (K013): Continued pouring and drilling with all crews in Block 1 of Unit 1. Layout was working in Block 1 of Unit 2. Excavations of the solar field misc pipe supports have been pushed back to Monday next week, with the first pour taking place mid week. Rebar & Bolts for the solar field misc pipe supports are also being delivered Monday. Caisson rebar cages continue to be delivered.

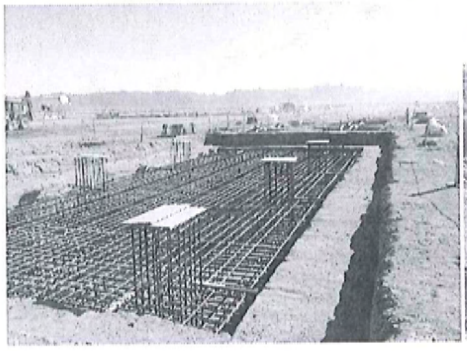
4. Blythe Power Constructors (K100): Continuation of receiving materials, SCE installation halted due to high wind conditions.

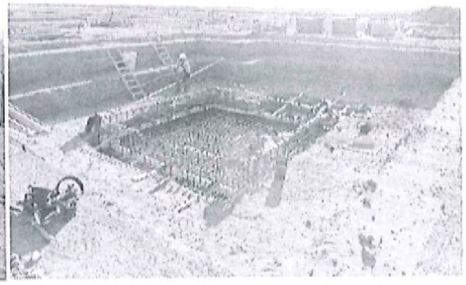


5. Sukut (K010): Dust control on the main access road.

6. Newtron (K014): Testing fiber optic and power cables in Ring 6 of Solar Field 1. Excavating trenches in Ring 7 of Unit 1.

7. Largo (K015): Completed footing excavations on the 4 economizers in Unit 1. Compacted footing bottoms in the ACC in unit 1. Rebar was being placed in the blowdown/oily Water Sump. Concrete footings were poured in the piperack (area 23). Largo will also be pouring tomorrow.





8. Trailer City: Install raceway and pull wire for yard siren. Installation of exterior light fixtures. Wired the water pump circuit to support the restroom trailer.

9. Blythe Power Constructors (K011): No Activity.

10. SPX Technologies (K057): No Activity.

Personnel on Site

Genesis Team	23
NAM	5
SWCA	2
Sukut (K010)	2
Sukut (K008)	5
PSI Testing (K007)	3
Terracon	1
AECOM	20
Guardsmark (K005)	3
Largo (K013)	71
Largo (K015)	25
Williams Scotsman	0
BPC (K100)	18
BPC (K011)	0
BATZ	2
Sener	4
Newtron	18
Holt Group	3
SPX Technologies(K057)	0
Whiting Turner (K067)	0
Baker Electric (Trailers)	3
Total	**208**

Genesis Daily Site Report

March 8, 2012

Safety: No accidents or injuries.

Safety Topic of the Week: "Spotters"

Weather Conditions: Clear, Temp – High 75; North winds at 11 mph (morning winds were much higher with gusty conditions)

Site Compliance: No Issues.

Items completed and working:

1. Site Preparation (K008): All grading operations were suspended due to high wind conditions today. Pre-watering of cut areas was implemented due to the dry conditions from winds for tomorrow's grading operations. Water setup maintenance was also performed. Channel crossing reinforcement, culvert assembly, and forming continued. Channel BC wing wall pours are scheduled for tomorrow. Full mass grading production is scheduled for Saturday. A topographic survey of remaining Unit 2 grading was completed and results received.

2. PSI (K007): Performed field density testing in Solar Field 2; Concrete sample collecting and testing for Caissons in Unit 1 and in Power Block 1. Testing footing subgrade in Power Block 1.

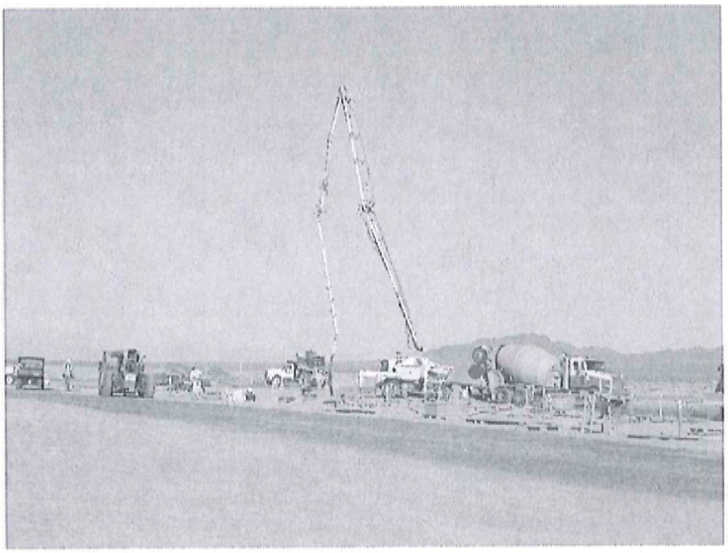
3. Largo (K013): Continued pouring and drilling with all crews in Block 1 of Unit 1. Layout was working in Block 1 of Unit 2. Excavations of the solar field misc pipe supports will start Monday next week. Caisson rebar cages continue to be delivered. Largo will have limited crews tomorrow.

4. Blythe Power Constructors (K100): Installed 4 SCE's to bring the total to 11. Alignment of 37 pylons.

5. Sukut (K010): Dust control on the main access road.

6. Newtron (K014): Testing fiber optic and power cables in Ring 6 of Solar Field 1. Excavating trenches in Ring 7 of Unit 1. Cable installation in Ring 7. Interface work around system ground with pipe sleepers.

7. Largo (K015): Started initial excavation on the HTF Pit in Unit 1. Rebar was being placed in the ACC. Concrete was poured in the deaerator portion of the piperack (area 25). No work is scheduled for tomorrow.



8. Trailer City: Yard warning siren installation. Water pump circuit installation to support the restroom trailer.

9. Blythe Power Constructors (K011): No Activity.

10. SPX Technologies (K057): No Activity.

Personnel on Site

Genesis Team	20
NAM	5
SWCA	2
Sukut (K010)	2
Sukut (K008)	22
PSI Testing (K007)	3
Terracon	1
AECOM	11
Guardsmark (K005)	3
Largo (K013)	71
Largo (K015)	25
Williams Scotsman	0
BPC (K100)	18
BPC (K011)	0
BATZ	2
Sener	4
Newtron	18
Holt Group	3
SPX Technologies(K057)	0
Whiting Turner (K067)	0
Baker Electric (Trailers)	2
Total	**212**

Genesis Daily Site Report

March 9, 2012

Safety: No accidents or injuries.

Riverside County Fire Department, Captain Pitts reported no problems while training new personnel on the well zero pump operation yesterday.

Safety Topic of the Week: "Spotters"

Weather Conditions: Clear, Temp – High 81; NNE winds at 10 mph

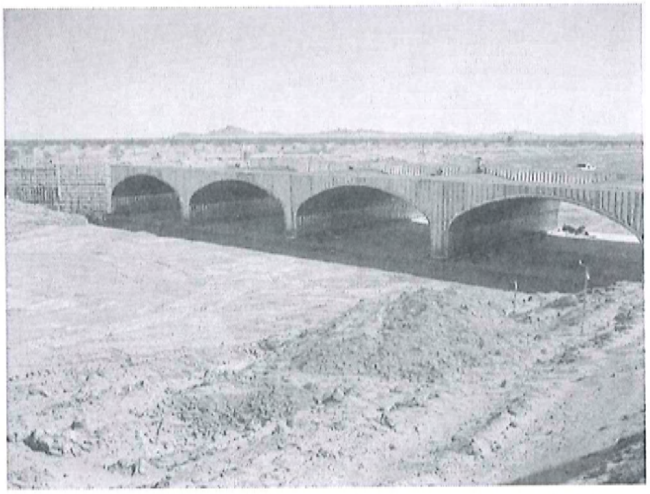
Site Compliance: Unit 1 & 2 South fence trash cleanup was completed today.

BLM, NextEra Energy and Colorado River Indian Tribes (CRIT) toured the site today.

Largo Concrete relocated their North lay down area from Unit 1 to Unit 2.

Items completed and working:

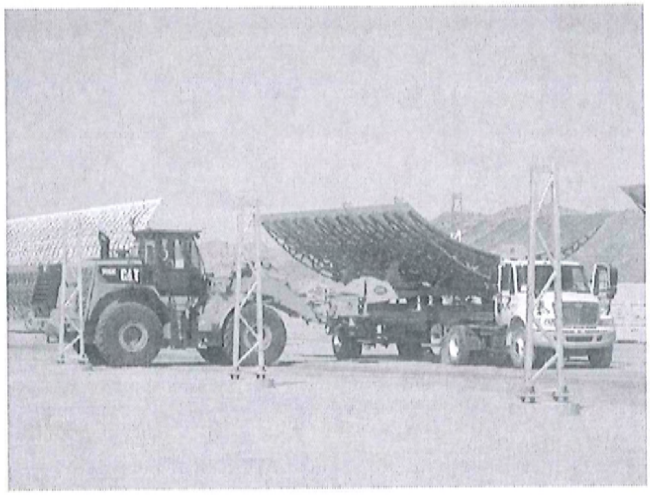
1. Site Preparation (K008): Cut operations continued in Blocks 6 & 7 of Unit 2 with fill being placed in the Common Area. Finish grade continued in Blocks 8 & 9 of Unit 2. Cut operations will be complete in the Unit 2 Blocks within three working days, with finish grade completion two days later. Cut operations will move to the remaining Unit 2 channels upon completion of the blocks. Channel BC wing wall pours and Channel D culvert installation continued.



2. PSI (K007): Performed field density testing in Solar Field 2; Concrete sample collecting and testing for Channel BC wing walls.

3. Largo (K013): Limited activities today with no pouring or drilling performed. Performed layout in Block 1 of Unit 2. One load of bolts will be unloaded tomorrow. All activities will resume Monday as well as starting construction on the miscellaneous pipe support foundations.

4. Blythe Power Constructors (K100): Installed 5 SCE's to bring the total to 16.



5. Sukut (K010): Dust control on the main access road.

6. Newtron (K014): Continue working wire and installation in Ring 7 of Un it 1. Testing cable in Ring 6 of Unit 1. Install grounding in Ring 7 of Unit 1. Off loaded 5 reels of 5kV cable.

7. Largo (K015): Received ACC anchor bolts that were expected to arrive Monday. Normal activities will resume on Monday.

8. Trailer City: No Activity.

9. Blythe Power Constructors (K011): No Activity.

10. SPX Technologies (K057): No Activity.

Personnel on Site

Genesis Team	24
NAM	7
SWCA	2
Sukut (K010)	2
Sukut (K008)	64
PSI Testing (K007)	3
Terracon	1
AECOM	22
Guardsmark (K005)	3
Largo (K013)	15
Largo (K015)	0
Williams Scotsman	0
BPC (K100)	18
BPC (K011)	0
BATZ	2
Sener	4
Newtron	17
Holt Group	2
SPX Technologies(K057)	0
Whiting Turner (K067)	0
Baker Electric (Trailers)	0
Total	**186**

Genesis Daily Site Report

March 12, 2012

Safety: No accidents or injuries.

Safety Committee met today at the regular time. Committee has changed the meeting time to 1:00 pm Mondays going forward.

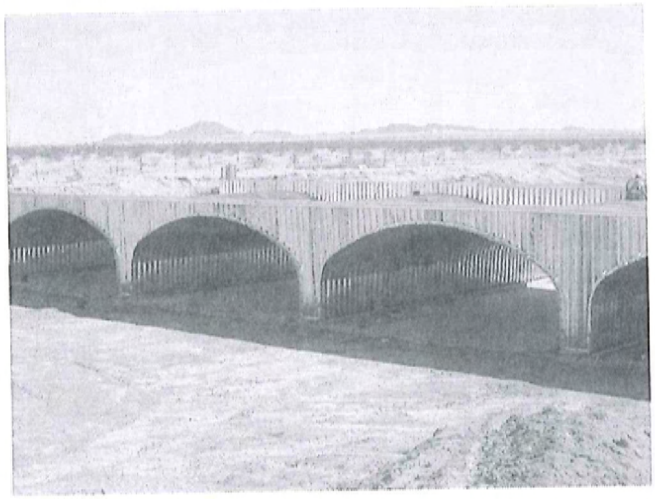
Safety Topic of the Week: "Goggles – Gloves"

Weather Conditions: Clear, Temp – High 82; SW winds at 5 mph

Site Compliance: No compliance issues today.

Items completed and working:

1. Site Preparation (K008): Cut operations continued in Blocks 6 and 7 of Unit 2 with fill being placed in the Common Area. Sukut worked Saturday with good production. Finish grade continued in Block 8 of Unit 2. Channel crossing reinforcement and forming is ongoing.



2. PSI (K007): Performed field density testing in Solar Field 2; Concrete sample collecting and testing for Caissons in Block 1 of Unit 1.

3. Largo (K013): Continued pouring and drilling in Block 1 of Unit 1. Excavations for the miscellaneous pipe supports started today and material was unloaded. Performed layout and unloaded rebar cages and bolts in Block 1 of Unit 2.

4. Blythe Power Constructors (K100): Installed 5 SCE's to bring the total to 21.

5. Sukut (K010): Dust control on the main access road.

6. Newtron (K014): Installation of 5kV cable, testing of cable and backfill in Ring 6 of Unit 1. Trench road crossings in Rings 6 & 7 of Unit 1. Install 5kV cable in Ring 7 of Unit 1

7. Largo (K015): Began ACC Foundation excavation in Unit 2 today. Installed rebar at the ACC Foundation in Unit 1. Excavation in the HTF Pit. Installation of forms in the Southern Piperack Foundation.

8. Trailer City: No Activity.

9. Blythe Power Constructors (K011): No Activity.

10. SPX Technologies (K057): No Activity.

Personnel on Site

Genesis Team	21
NAM	7
SWCA	1
Sukut (K010)	2
Sukut (K008)	62
PSI Testing (K007)	2
Terracon	1
AECOM	19
Guardsmark (K005)	3
Largo (K013)	74
Largo (K015)	20
Williams Scotsman	0
BPC (K100)	18
BPC (K011)	0
BATZ	2
Sener	4
Newtron	17
Holt Group	2
SPX Technologies(K057)	0
Whiting Turner (K067)	0
Baker Electric (Trailers)	0
Total	**255**

Genesis Daily Site Report

March 13, 2012

Safety: No accidents or injuries.

Met with Sukut and Largo Safety to discuss communication when working near other contractors.

Safety Topic of the Week: "Goggles – Gloves"

Weather Conditions: Clear, Temp – High 83; SW winds at 11 mph

Site Compliance: Bird surveys were performed in Unit 1 Block 2.

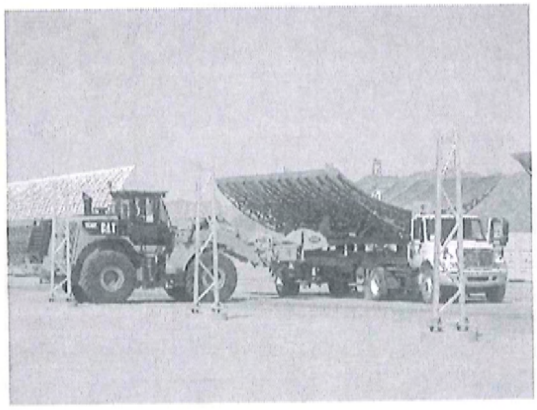
Items completed and working:

1. Site Preparation (K008): Cut operations finished in Blocks 6 & 7, and moved to the remaining channel cut in Unit 2, with fill being placed in the Common Area. Finish grade continued in Blocks 6-9 of Unit 2 and the channels. Channel crossing reinforcement, forming, and culvert assembly continued.

2. PSI (K007): Performed field density testing in Solar Field 2; Concrete sample collecting and testing for Caissons in Block 1 of Unit 1.

3. Largo (K013): Continued drilling and pouring in Block 1 of Unit 1. Received a load of bolts and continued receiving caisson rebar cages. Work on the misc pipe supports will resume tomorrow.

4. Blythe Power Constructors (K100): Installed 6 SCE's to bring the total to 27.



5. Sukut (K010): Dust control on the main access road.

6. Newtron (K014): Install/test/backfill 5kV cable in Ring 6 of Unit 1. Installing PV conduit, cable & concrete at the road crossing in Rings 6 & 7 of Unit 1. Trenching, cable installation and grounding in Ring 7 of Unit 1.

7. Largo (K015): Unit 1 - Continued excavations in the HTF Pit, worked on compacting excavation bottoms and tying rebar in the ACC. Poured bottom mat on the Blowdown/Oily Water Sump and will start to place rebar and form walls tomorrow. Unit 1 Piperack bolts were received yesterday. First ACC pour is scheduled for tomorrow. Unit 2 – Continued excavations on the ACC and compacting footing bottoms.

8. Trailer City: No Activity.

9. Blythe Power Constructors (K011): No Activity.

10. SPX Technologies (K057): No Activity.

Personnel on Site

Genesis Team	28
NAM	9
SWCA	2
Sukut (K010)	2
Sukut (K008)	64
PSI Testing (K007)	2
Terracon	1
AECOM	20
Guardsmark (K005)	3
Largo (K013)	74
Largo (K015)	26
Williams Scotsman	0
BPC (K100)	18
BPC (K011)	0
BATZ	2
Sener	4
Newtron	17
Holt Group	1
SPX Technologies(K057)	0
Whiting Turner (K067)	0
Baker Electric (Trailers)	0
Total	**273**

Genesis Daily Site Report

March 14, 2012

Safety: No accidents, incidents (equipment damage/near miss) or injuries.

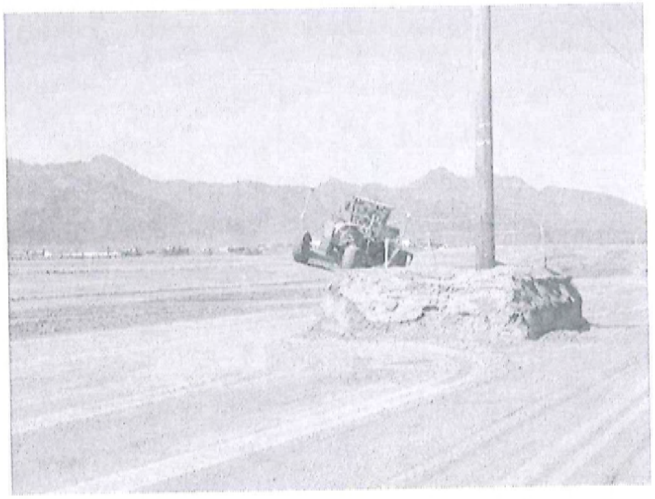
Safety Topic of the Week: "Goggles - Gloves"

Weather Conditions: Sunny, Temp – High 82; Winds SSW at 5 mph

Site Compliance: Department of Energy, State Historic Preservation Office, California Energy Commission, and the Bureau of Land Management were on site today.

Items completed and working:

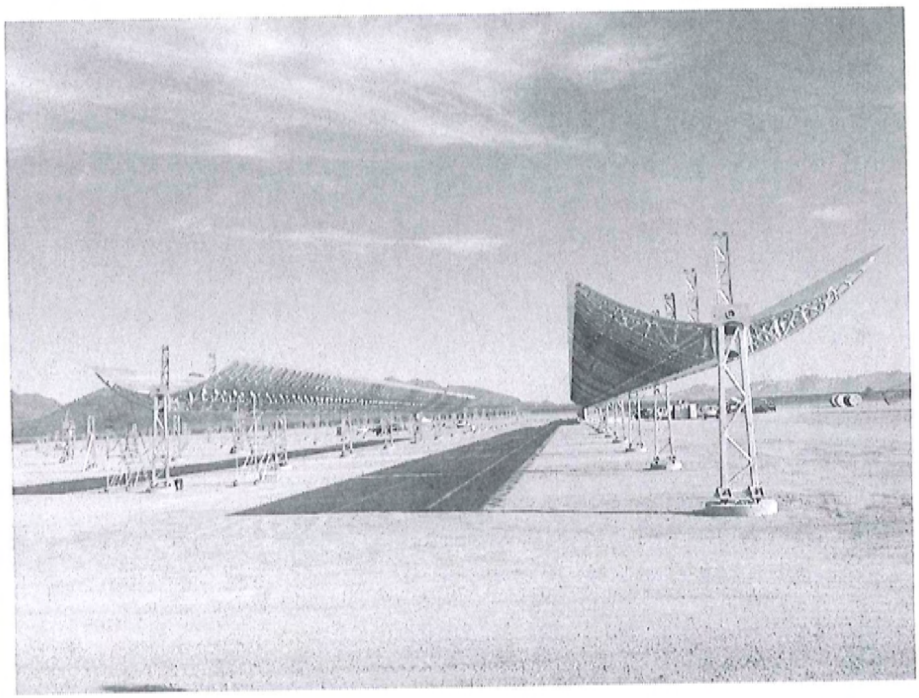
1. Site Preparation (K008): Cut operations were in Channel D of Unit 2 with fill being placed in the Common Area. Another cut operation crew was in Block 2 of Unit 1 with fill being placed in Block 4. Finish grade continued in Blocks 6 and 7 of Unit 2 and the electrical easement area West of Blocks 2 and 3 of Unit 2. Final wing-wall pour at Channel BC was completed today.



2. PSI (K007): Performed field density testing in Solar Field 2; Concrete sample collecting and testing for Caissons in Unit 1 and in Power Block 1. Testing footing subgrade in Power Block 1 & 2.

3. Largo (K013): Continued pouring and drilling with all crews in Block 1 of Unit 1. Layout was working in Block 1 of Unit 2 with control points being set in Block 2 of Unit 2. Excavations of the solar field misc pipe supports resumed today on the North end of Block 5. Caisson rebar cages continue to be delivered and offloaded in Unit 2. Drilling is expected to start in Block 1 of Unit 2 tomorrow.

4. Blythe Power Constructors (K100): Installed 6 SCE's to bring the total to 33.



5. Sukut (K010): Dust control on the main access road.

6. Newtron (K014): Installing fiber optic cable/Ethernet in ring 7. Performed backfill and compaction in Ring 6. Road crossing in ring 6-7 are ongoing.

7. Largo (K015): Unit 1 - Continued excavations in the HTF Pit, worked on compacting excavation bottoms and tying rebar in the ACC. Poured the first set of bottom mats on the North end of the ACC. Started forming and tying rebar for the Blowdown/Oily Water Sump walls. Unit 2 – Continued excavations on the ACC and compacting footing bottoms.

8. Trailer City: No Activity.

9. Blythe Power Constructors (K011): No Activity.

10. SPX Technologies (K057): No Activity.

Personnel on Site

Genesis Team	28
NAM	9
SWCA	2
Sukut (K010)	2
Sukut (K008)	64
PSI Testing (K007)	2
Terracon	1
AECOM	20
Guardsmark (K005)	3
Largo (K013)	74
Largo (K015)	26
Williams Scotsman	0
BPC (K100)	18
BPC (K011)	0
BATZ	2
Sener	4
Newtron	17
Holt Group	3
SPX Technologies(K057)	0
Whiting Turner (K067)	0
Baker Electric (Trailers)	0
Total	**275**

Genesis Daily Site Report

March 15, 2012

Safety: No accidents, incidents (equipment damage/near miss) or injuries.

Inspection of Largo drinking water supply showed more than ample quantity of clean drinking water, ice, sanitary cups with disposal containers and employees knowledge of the requirements.

Tom Turansky with B. V. was onsite today.

Safety Topic of the Week: "Goggles – Gloves"

Weather Conditions: Clear, Temp – High 85; SSE winds at 7 mph

Site Compliance: No compliance issues.

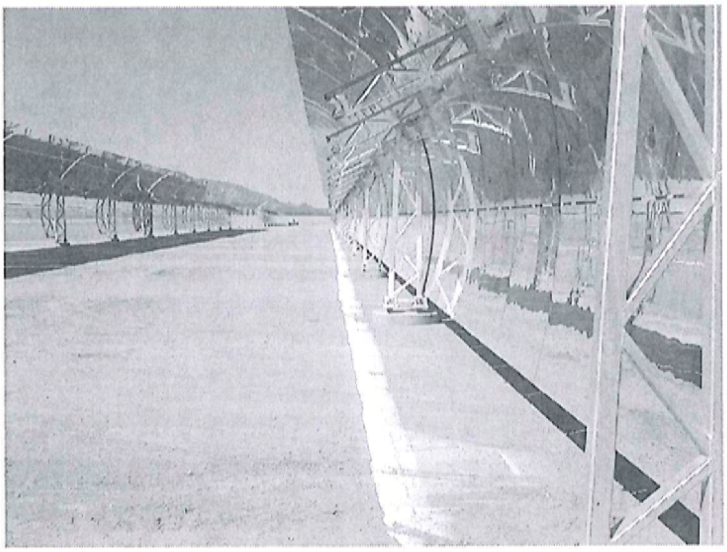
Items completed and working:

1. Site Preparation (K008): Cut operations continued in Channel D of Unit 2 with fill being placed in the Common Area. Finish grade continued in Blocks 6 and 7 of Unit 2. Channel crossing forming and reinforcement is ongoing.

2. PSI (K007): Performed field density testing in Solar Field 2; Concrete sample collecting and testing Power Block foundations in Unit 1.

3. Largo (K013): Unit 1 - drilling was completed in Block 1 and pouring continued. Drilled more misc pipe supports in Block 5. Unit 2 – Continued Layout & laying out rebar cages in Block 1, started drilling with all 3 rigs in Block 1.

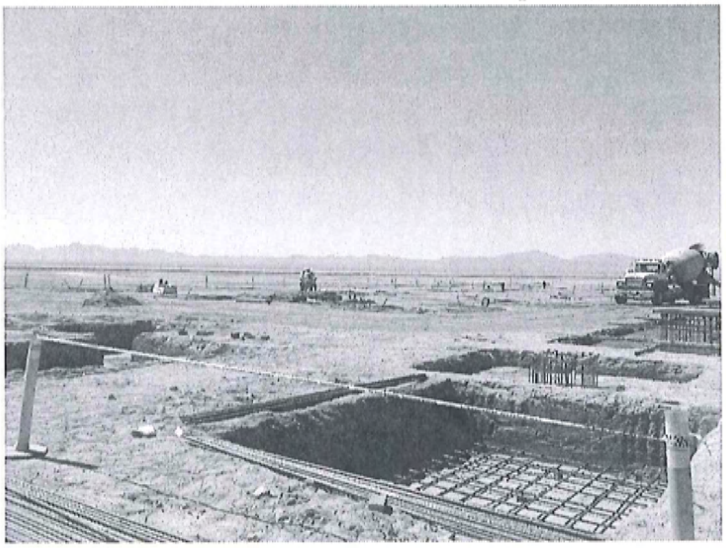
4. Blythe Power Constructors (K100): Installed 6 SCE's to bring the total to 39.



5. Sukut (K010): Dust control on the main access road.

6. Newtron (K014): Completed cable installation in Ring 6, backfill and compaction started. Road crossing rebar in place & inspected, pouring concrete tomorrow morning. Cable, fiber & Ethernet installation in Ring 7 of Unit 1.

7. Largo (K015): Unit 1 - Completed excavations for the HTF Overflow, worked on compacting excavation bottoms, tying rebar & Poured footings in the ACC. Started setting bolts in the piperack columns. Inside wall forms were set on the Blowdown Sump with rebar starting Monday. Unit 2 – Continued excavations on the ACC and compacting footing bottoms.



8. Trailer City: No Activity.

9. Blythe Power Constructors (K011): No Activity.

10. SPX Technologies (K057): No Activity.

Personnel on Site

Genesis Team	24
NAM	9
SWCA	2
Sukut (K010)	2
Sukut (K008)	64
PSI Testing (K007)	2
Terracon	1
AECOM	20
Guardsmark (K005)	3
Largo (K013)	74
Largo (K015)	26
Williams Scotsman	0
BPC (K100)	35
BPC (K011)	0
BATZ	2
Sener	3
Newtron	19
Holt Group	2
SPX Technologies(K057)	0
Whiting Turner (K067)	0
Baker Electric (Trailers)	0
Total	**288**

Genesis Daily Site Report

March 16, 2012

Safety: No accidents, incidents (equipment damage/near miss) or injuries.

Safety Topic of the Week: "Goggles – Gloves"

Weather Conditions: Clear, Temp – High 86; SSE winds at 10 mph

Site Compliance: No compliance issues.

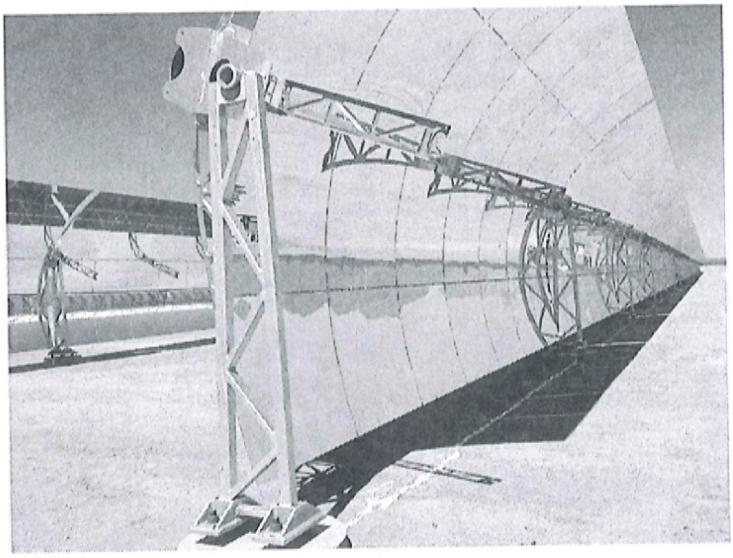
Items completed and working:

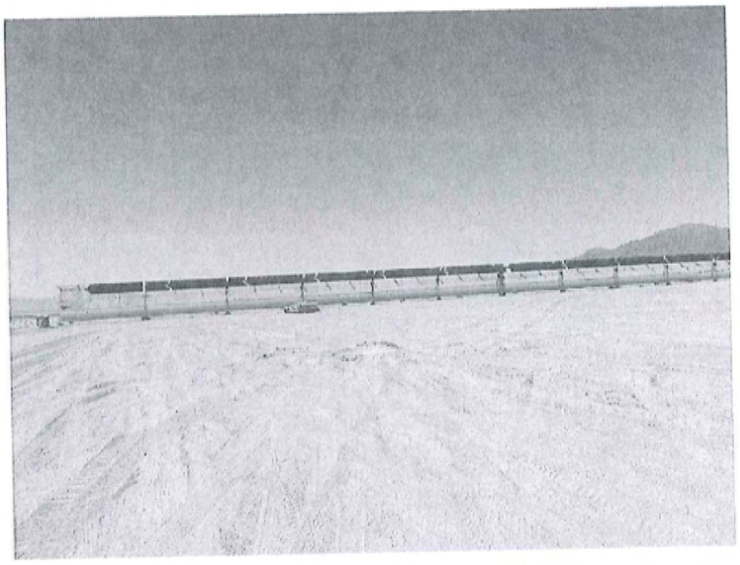
1. Site Preparation (K008): Cut operations continued in the Channel D with fill being placed in the NE contour areas of Unit 2. Finish Grade continued in Blocks 6 & 7 of Unit 2. Channel D wing Wall pours continued.

2. PSI (K007): Performed field density testing in Solar Field 2; Concrete sample collecting and testing for Channel D wing walls.

3. Largo (K013): Unit 1 – Continued layout & drilling in Block 1 of Unit 2. One of the rigs will be having repairs performed on it over the weekend.

4. Blythe Power Constructors (K100): Installed 6 SCE's to bring the total to 45.





5. Sukut (K010): Dust control on the main access road.

6. Newtron (K014): Backfill and compaction in Ring 6 of Unit 1. Road crossing concrete poured. Cable, fiber & Ethernet installation in Ring 7 of Unit 1.

7. Largo (K015): No Activity.

8. Trailer City: Connected power to the restroom trailer, ready for use on Monday.

9. Blythe Power Constructors (K011): No Activity.

10. SPX Technologies (K057): No Activity.

Personnel on Site

Genesis Team	19
NAM	9
SWCA	1
Sukut (K010)	4
Sukut (K008)	62
PSI Testing (K007)	2
Terracon	1
AECOM	17
Guardsmark (K005)	3
Largo (K013)	23
Largo (K015)	0
Williams Scotsman	0
BPC (K100)	18
BPC (K011)	0
BATZ	2
Sener	3
Newtron	19
Holt Group	1
SPX Technologies(K057)	0
Whiting Turner (K067)	0
Total	**184**

Genesis Daily Site Report

March 19, 2012

Safety: No accidents, incidents (equipment damage/near miss) or injuries.

Safety Topic of the Week: "Vehicles"

Weather Conditions: Clear, Temp – High 62; winds at 3 mph

Site Compliance: No compliance issues.

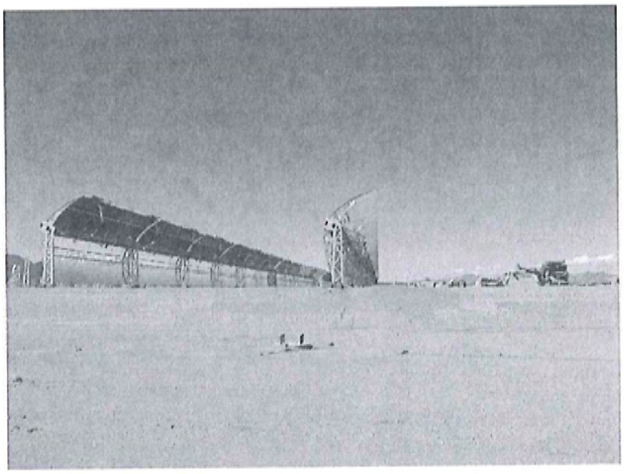
Items completed and working:

1. Site Preparation (K008): Cut operations continued in Channel D with fill being placed in the Common Area. Finish grade continued in Blocks 6-8 of Unit 2. Channel D crossing forming and reinforcement continued.

2. PSI (K007): Performed field density testing in Solar Field 2; Concrete sample collecting and testing for Caissons in Unit 1.

3. Largo (K013): Unit 1 - Completed pouring caissons in Block 1. Worked on setting a few miscellaneous pipe supports on the North end of Block 5. Unit 2 - Received a load of bolts and continued receiving caisson rebar cages. Drilling continued with 2 rigs in Block 1 (3rd rig is being repaired). Will start pouring concrete tomorrow morning. Layout continued in Block 1.

4. Blythe Power Constructors (K100): Installed 5 SCE's to bring the total to 50.



5. Sukut (K010): Dust control on the main access road.

6. Newtron (K014): Complete excavation, install ground cable and perform cable testing in Ring 6 in Unit 1. Install ground cable, CAT 6 cable and perform backfill in Ring 7 of Unit 1.

7. Largo (K015): Unit 1 – No excavations, continued tying rebar in the ACC and Blowdown/Oily Water Sump. Forms are continuing to be placed on the piperack columns. Will be pouring piperack columns/pedestals tomorrow. Unit 2 – Completed ACC excavations and started tying rebar today.

8. Trailer City: Restroom trailer is operational.

9. Blythe Power Constructors (K011): BPC trained (4) new employees and received equipment. Material inventory is ongoing. BPC began surveying and layout of trenches within Solar Field 1.

10. SPX Technologies (K057): No Activity.

Personnel on Site

Genesis Team	20
NAM	9
SWCA	2
Sukut (K010)	2
Sukut (K008)	62
PSI Testing (K007)	2
Terracon	1
AECOM	19
Guardsmark (K005)	3
Largo (K013)	78
Largo (K015)	28
Williams Scotsman	0
BPC (K100)	35
BPC (K011)	6
BATZ	2
Sener	3
Newtron	19
Holt Group	2
SPX Technologies(K057)	0
Whiting Turner (K067)	0
Total	**293**

Genesis Daily Site Report

March 20, 2012

Safety: There were no injuries today.

There were two separate instances where caisson bolts were damaged by contact from third party vehicles.

Although only light damage was sustained the implications of environmental contamination from vehicle damage and given placement of workers onsite, the personal safety of employees that could have been proximate, the incidents are being taken very seriously. The safety topic of this week's newsletter is Vehicle Safety and we will continue to press upon the site the importance of deliberate driving and parking techniques and personal awareness whenever vehicles are present in the workplace.

Safety Topic of the Week: "Vehicles"

Weather Conditions: Clear, Temp – High 72; NNE winds at 8 mph

Site Compliance: BLM Archaeologist George Kline, Ranger Cortazar, and a representative from the Quechan Tribe visited the site today.

Items completed and working:

1. Site Preparation (K008): Cut operations completed in Block 3 previous cultural zones of Unit 2, with fill being placed in the Common Area. Mass cut operations are now complete in Unit 2 with finish grade to follow. Channel D crossing wing-wall pours continued and Channel BC backfill to start tomorrow. Unit 2 trap-channel (v-ditch) commenced today.

2. PSI (K007): Performed field density testing in Solar Field 2; Concrete sample collecting and testing for Caissons in Unit 2 & Power Block in Unit 1.

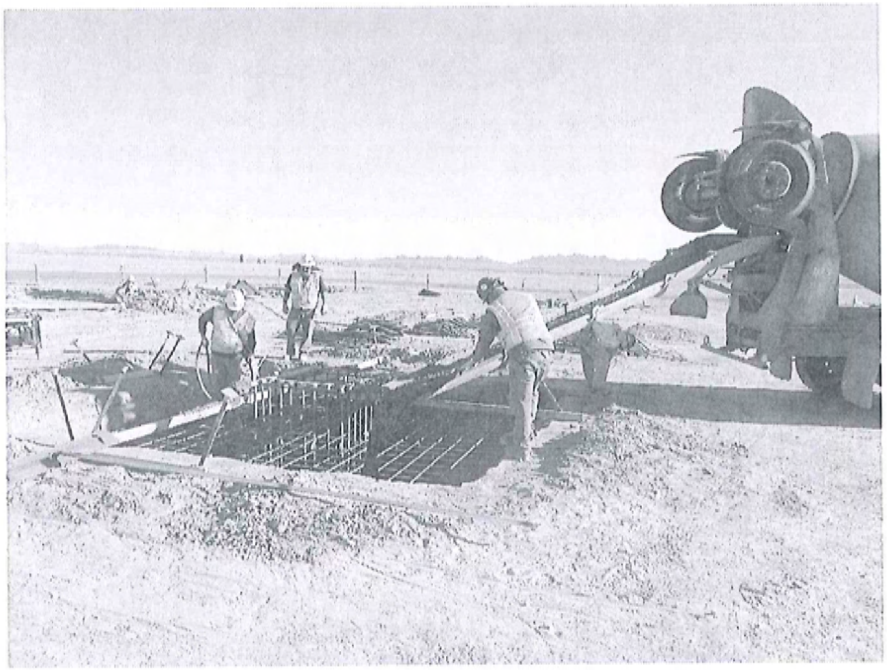
3. Largo (K013): Unit 1 – Performed Clean-up in Block 1. Unit 2 - Received another load of bolts and continued receiving caisson rebar cages. Drilling continued with 3 rigs in Block 1 (One of the drill rigs was swapped out today due to mechanical reasons). Poured the first 6 rows of caissons on the Western portion of Block 1. Layout continued in Block 1.

4. Blythe Power Constructors (K100): Installed 10 SCE's to bring the total to 60.

5. Sukut (K010): Dust control on the main access road.

6. Newtron (K014): Install ground cable and perform cable testing in Ring 6 in Unit 1. Install ground cable, CAT 6 cable and perform backfill in Ring 7 of Unit 1.

7. Largo (K015): Unit 1 –Continued tying rebar in the ACC and Blowdown/Oily Water Sump. Poured the Southern piperack columns/pedestals and additional footings in the ACC. Unit 2 – Started tying rebar for the ACC.



8. Trailer City: Installed internet at the SPX trailer.

9. Blythe Power Constructors (K011): Qualified and certified 4 pipe fitters for HDPE welding. Began fabrication for Power Block Unit 1 Firewater Pipe.

10. SPX Technologies (K057): No Activity.

Personnel on Site

Genesis Team	22
NAM	9
SWCA	2
Sukut (K010)	2
Sukut (K008)	54
PSI Testing (K007)	2
Terracon	1
AECOM	20
Guardsmark (K005)	3
Largo (K013)	80
Largo (K015)	28
Williams Scotsman	0
BPC (K100)	35
BPC (K011)	8
BATZ	2
Sener	3
Newtron	18
Holt Group	2
SPX Technologies(K057)	0
Whiting Turner (K067)	0
Total	**291**

Genesis Daily Site Report

March 21, 2012

Safety: There were no accidents or injuries today.

Reinforce driving techniques with contractors and monitors onsite.

Safety Topic of the Week: "Vehicles"

Weather Conditions: Clear, Temp – High 80; winds at 0 mph

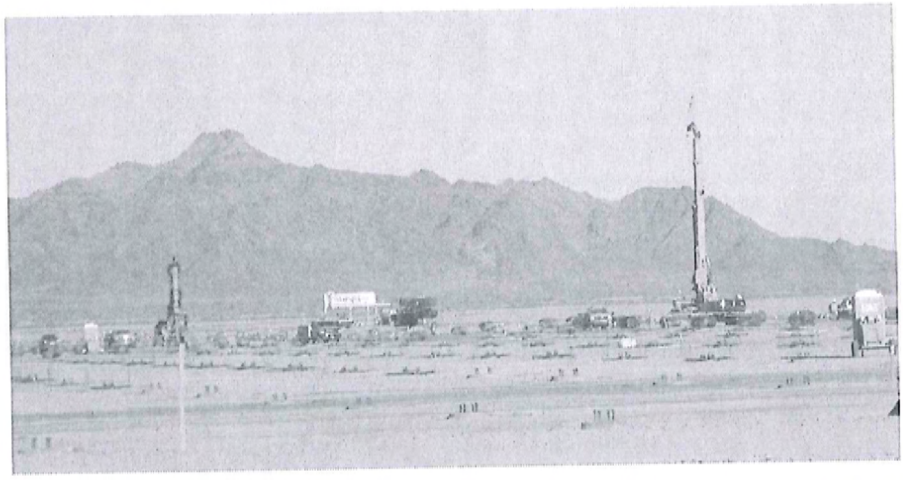
Site Compliance: No issues to report.

Items completed and working:

1. Site Preparation (K008): Final Balancing and finish grade continued in Blocks 3, 6-8, and Channel D of Unit 2 and the Common Area. Channel BC crossing backfill continued today and Unit 2 trap-channel (v-ditch) continues.

2. PSI (K007): Performed field density testing in Solar Field 2; Concrete sample collecting and testing for Caissons in Unit 2 & Power Block in Unit 1.

3. Largo (K013): Unit 1 – Performed Clean-up in Block 1. Started setting rebar and forms for miscellaneous pipe supports in Block 5. Unit 2 - Continued receiving caisson rebar cages, drilling, pouring, and layout caissons in Block 1.



4. Blythe Power Constructors (K100): Installed 7 SCE's to bring the total to 67.

5. Sukut (K010): Dust control on the main access road.

6. Newtron (K014): Completed cable testing in Ring 6 of Unit 1 and started in Ring 7. Installed ground cable, CAT 6 cable and perform backfill in Ring 7 of Unit 1.

7. Largo (K015): Unit 1 –Continued tying rebar in the ACC and Blowdown/Oily Water Sump. Poured the first set of ACC columns/pedestals and additional footings in the ACC. Unit 2 – Received another load of rebar and continued tying rebar for the ACC.

8. Trailer City: No Activity.

9. Blythe Power Constructors (K011): Started layout for the firewater loop and continued fabrication for Power Block 1 Firewater Pipe.

10. SPX Technologies (K057): No Activity.

Personnel on Site

Genesis Team	22
NAM	9
SWCA	3
Sukut (K010)	2
Sukut (K008)	34
PSI Testing (K007)	2
Terracon	1
AECOM	20
Guardsmark (K005)	3
Largo (K013)	80
Largo (K015)	28
Williams Scotsman	0
BPC (K100)	35
BPC (K011)	8
BATZ	2
Sener	3
Newtron	19
Holt Group	2
SPX Technologies(K057)	0
Whiting Turner (K067)	0
Total	**273**

Genesis Daily Site Report

March 22, 2012

Safety: There were no accidents or injuries today.

Whiting Turner Superintendant onsite for orientation today.

B.V. Safety, Tom Turansky on site today.

Safety Topic of the Week: "Vehicles"

Weather Conditions: Sunny, Temp – High 88; S winds at 10 mph

Site Compliance: There was a paleontological find made in Unit 2 Block 3. A fossilized tortoise shell was collected & cleared from the site.

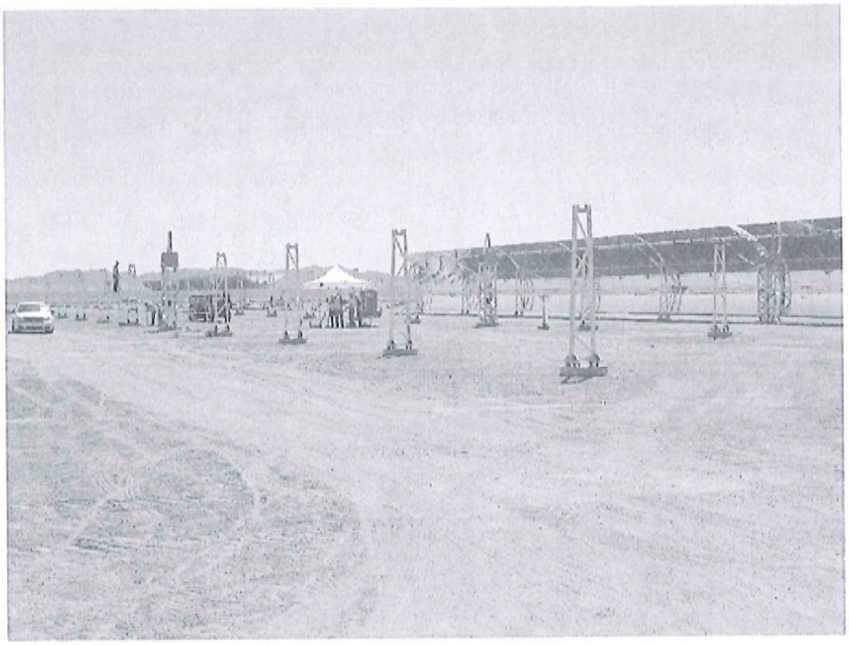
Items completed and working:

1. Site Preparation (K008): Final Balancing and finish grade continued in Blocks 3, 6-8, and Channel D of Unit 2, the Northern Contour area of Unit 1 and the Common Area. Channel BC crossing backfill continued today and Unit 2 trap-channel (v-ditch) continues.

2. PSI (K007): Performed field density testing in Solar Field 2; Concrete sample collecting and testing for Caissons in Unit 2.

3. Largo (K013): Unit 1 – Performed Clean-up in Block 1. Continued setting rebar and forms for miscellaneous pipe supports in Block 5. Unit 2 - Continued receiving caisson rebar cages, drilling, pouring, and layout caissons in Block 1. The only activity taking place tomorrow will be drilling in Block 1.

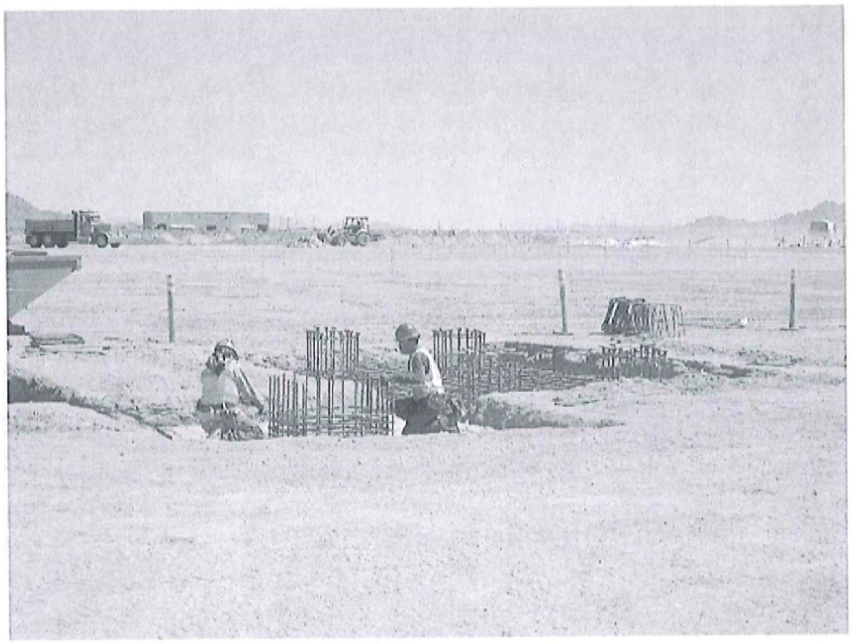
4. Blythe Power Constructors (K100): Installed 10 SCE's to bring the total to 77.



5. Sukut (K010): Dust control on the main access road.

6. Newtron (K014): Cable installation, testing, backfill in Ring 7 of Unit 1 and Performed trenching in Ring 1 Unit 1.

7. Largo (K015): Unit 1 –Continued tying rebar in the ACC and Blowdown/Oily Water Sump and HTF overflow vessels. Started tripped piperack columns/pedestals forms. Unit 2 – Completed footing bottoms in the ACC. Work will resume on Monday.



8. Trailer City: No Activity.

9. Blythe Power Constructors (K011): Continued layout for the firewater loop and continued fabricating HDPE for Power Block 1 Firewater Pipe.

10. SPX Technologies (K057): No Activity.

Personnel on Site

Genesis Team	23
NAM	9
SWCA	3
Sukut (K010)	2
Sukut (K008)	42
PSI Testing (K007)	2
Terracon	1
AECOM	18
Guardsmark (K005)	3
Largo (K013)	80
Largo (K015)	28
Williams Scotsman	0
BPC (K100)	35
BPC (K011)	7
BATZ	2
Sener	3
Newtron	19
Holt Group	2
SPX Technologies (K057)	1
Whiting Turner (K067)	1
Total	**281**

Genesis Daily Site Report

March 23, 2012

Safety: There were no accidents or injuries today.

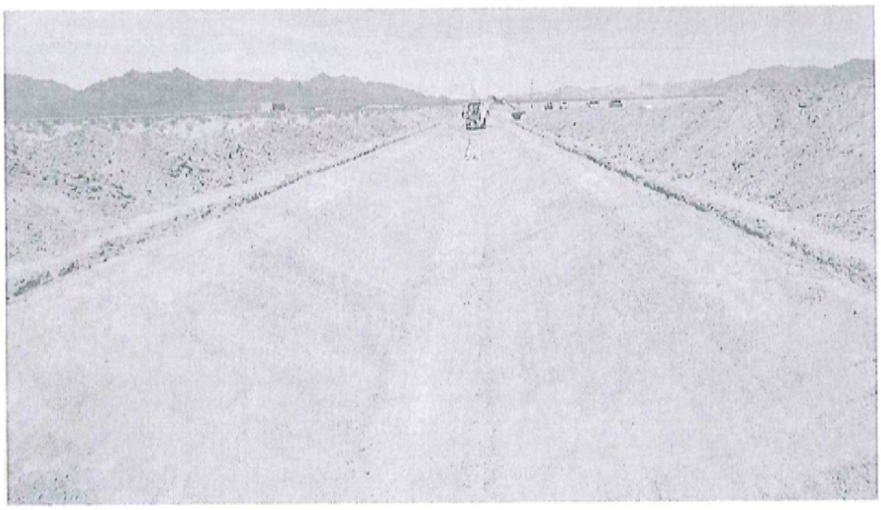
Safety Topic of the Week: "Vehicles"

Weather Conditions: Sunny, Temp – High 86; SSE winds at 10 mph

Site Compliance: Nothing to report.

Items completed and working:

1. Site Preparation (K008): Final Balancing and finish grade continued in Blocks 3, 6-8, and Channel D of Unit 2, the Northern Contour area of Unit 1 and the Common Area. Channel BC crossing backfill continued today and Unit 2 trap-channel (v-ditch) continues. Channel D final wing-wall pours to be completed next week.



2. PSI (K007): Performed field density testing in Solar Field 2; Testing Channel BC Crossing backfill.

3. Largo (K013): Unit 1 – No work. Unit 2 - Drilling and layout crews in Block 1. Normal work will resume Monday.

4. Blythe Power Constructors (K100): Installed 9 SCE's to bring the total to 86.

5. Sukut (K010): Dust control on the main access road.

6. Newtron (K014): Cable installation and testing in Ring 7 of Unit 1 and Performed trenching in Ring 1 Unit 1. Got set up for ground grid installation in Power Block.

7. Largo (K015): Work will resume on Monday.

8. Trailer City: No Activity.

9. Blythe Power Constructors (K011): No work today. Crews are on 4 day x 10 hour days.

10. SPX Technologies (K057): No Activity.

11. K006 Site Wells: SWPD onsite today to troubleshoot and review Well 0 pump failure. SWPD to rebuild the shaft and bearing assemblies at their shop and re-install on Monday.

Personnel on Site

Genesis Team	23
NAM	9
SWCA	3
Sukut (K010)	2
Sukut (K008)	42
PSI Testing (K007)	2
Terracon	1
AECOM	17
Guardsmark (K005)	3
Largo (K013)	21
Largo (K015)	0
Williams Scotsman	0
BPC (K100)	35
BPC (K011)	0
BATZ	2
Sener	3
Newtron	18
Holt Group	2
SPX Technologies (K057)	1
Whiting Turner (K067)	0
SouthWest Pumping & Drilling	3
Total	**187**

Genesis Daily Site Report

March 26, 2012

Safety: No accident or injury

Safety Committee met this afternoon. One of the topics addressed was concern about fatigue for workers who are dispatched from 100 + miles and commuting to work on Monday mornings.

The committee stressed the importance of keeping an eye on fellow workers, being mindful to watch for fatigue and also entertained the idea of carpooling.

Safety Topic of the Week: "Flying Falling Objects"

Weather Conditions: Sunny, Clear, Temp – High 73; Wind- SW 5 mph

Site Compliance: No issues.

Items completed and working:

1. Site Preparation (K008): Final Balancing and finish grade continued in Blocks 3, 6-8, and Channel D of Unit 2 and the Common Area. Unit 2 trap-channel (v-ditch) and Channel D reinforcement continues.

2. Sukut (K010): Full time standing water mitigation and dust control on the main access road activities continued.

3. Blythe Power Constructors (K011): Continued fabrication of HDPE pipe.

4. Largo (K013): Unit 1 – Performed Clean-up in Block 1. Continued setting rebar and forms for miscellaneous pipe supports in Block 5. Unit 2 - Continued receiving caisson rebar cages, drilling, pouring, and layout caissons in Block 1. Layout was also working in Block 6.

5. Blythe Power Constructors (K100): Continued SCE Installation and receiving material.

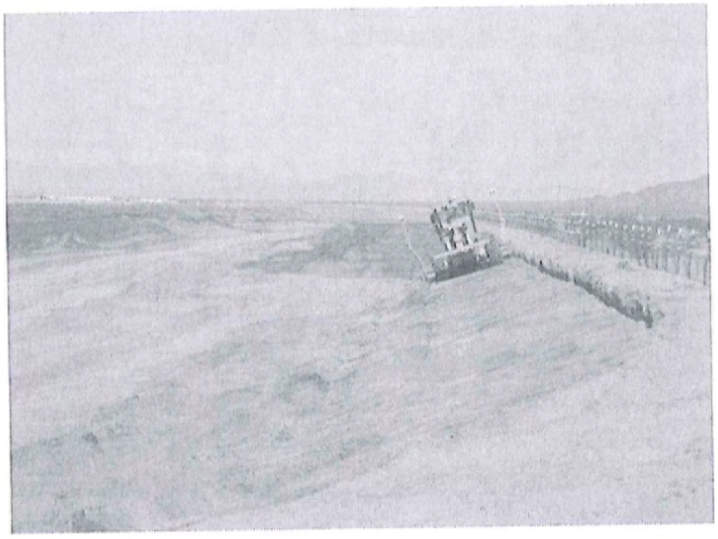
6. Newton (K014): Continue testing Fiber and power cabling for ring. Excavation, grounding, power cabling installation continues.

7. Largo (K015): Unit 1 – Continued tying some rebar in the ACC and HTF overflow vessels. Completed form work on the Blow down/Oily Water Sump. Poured last row of the footings on the South side of the ACC. Unit 2 – Started tying rebar in the ACC. Received some rebar for the STG. Continued excavation on the STG foundation.

8. SPX (K057): No Activities.

9. SWPD (K006): Onsite today to re-install motor and pump at Well 0; initial startup and testing to be completed tomorrow morning.

10. Trailer City: Started changing out the doors on the main office wide. Working on fire water tank installation for the trailer city complex.



Personnel on Site-
Genesis Team – 23
NAM – 9
SWCA-3
Sukut (K010) –6
Sukut (K008) - 42
PSI Testing (K007) - 4
Terracon – 1
AECOM – 14
SWCA-2
Guardsmark (K005) – 5
Largo (K013) – 80

Largo (K015)-28
Blythe Power (K100) – 35
Blythe Power (K011) - 13
BATZ – 1
Newtron (K014) - 18
Sener – 3
Holt Group-2
SWPD-3
William Scotsman-2

Genesis Daily Site Report

March 27, 2012

Safety: No accident or injury

Safety Topic of the Week: "Flying Falling Objects"

Weather Conditions: Sunny, Clear, Temp – High 83; Wind- W 5 mph

Site Compliance: The cultural resource survey prescribed by the Notice to resume issued on March 21 commenced today.

Items completed and working:

1. Site Preparation (K008): Final Balancing and finish grade continued in Blocks 3, 6-8 of Unit 2, Channels, Northern Contour Area of Unit 1, and the Common Area. Unit 2 trap-channel (v-ditch) and Channel D concrete pours continue. Unit 2 catch basin installations commenced today.

2. Sukut (K010): Full time standing water mitigation and dust control on the main access road activities continued.

3. Blythe Power Constructors (K011): Continued fabrication of HDPE pipe. Began Excavation on Power Block 1 Firewater Loop.

4. Largo (K013): Unit 1 –Started excavating and continued setting rebar and forms for miscellaneous pipe supports in Block 5/6. Unit 2 - Continued receiving caisson rebar cages, drilling, and pouring in Block 1. Layout was working in Block 6.

5. Blythe Power Constructors (K100): Continued SCE Installation and receiving material.

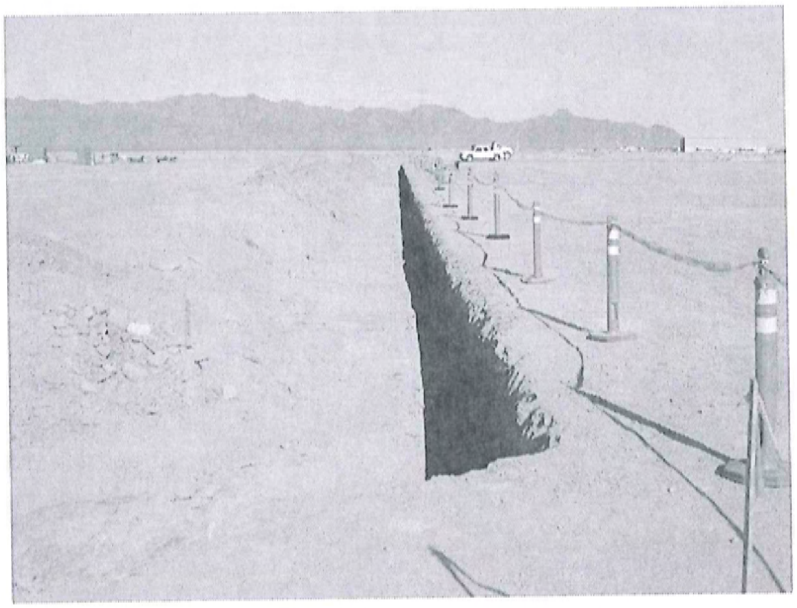
6. Newton (K014): Excavation and cabling in Unit 1 Block 1 Ring 5 continued.

7. Largo (K015): Unit 1 – Continued tying some rebar in the ACC and HTF overflow vessels. Poured the walls on the Blowdown/Oily Water Sump and the ACC Exhaust duct support foundations. Continued backfill in the piperack. Unit 2 – Continued tying rebar in the ACC. Continued excavation on the STG foundation.
   Received some rebar for the STG. Continued excavation on the STG foundation.

8. SPX (K057): No Activities.

9. SWPD (K006): SWPD completed re-installation of the motor and pump at Well 0.

10. Trailer City: Working on fire water tank installation for the trailer city complex.



Personnel on Site-
Genesis Team – 23
NAM – 9
SWCA-3
Sukut (K010) –6
Sukut (K008) - 42
PSI Testing (K007) - 4
Terracon – 1
AECOM – 14
SWCA-2
Guardsmark (K005) – 5
Largo (K013) – 80
Largo (K015)-28
Blythe Power (K100) – 35
Blythe Power (K011) - 13
BATZ – 1
Newtron (K014) - 18
Sener – 3

Holt Group-2
SWPD-3
William Scotsman-2

Genesis Daily Site Report

March 28, 2012

Safety: No accident or injury

Safety Topic of the Week: "Flying Falling Objects"

Weather Conditions: Sunny, Clear, Temp – High 82; Wind- S 6 mph

Site Compliance: No Issues.

Items completed and working:

1. Site Preparation (K008): Final Balancing and finish grade continued in the Channels, Northern Contour Area of Unit 1, and the Common Area. Unit 2 trap-channel (v-ditch), crossing construction, and catch basin installations continue. Unit 1 Blocks 2 and 4 pre-watering re-commenced today.

2. Sukut (K010): Full time standing water mitigation and dust control on the main access road activities continued.

3. Blythe Power Constructors (K011): Continued fabrication of HDPE pipe and excavation on Power Block 1 Firewater Loop.

4. Largo (K013): Unit 1 –Continued excavating and setting rebar and forms for miscellaneous pipe supports in Blocks 5 & 6. Unit 2 - Continued receiving caisson rebar cages, drilling, and pouring in Block 1. Layout finished in Block 6.

5. Blythe Power Constructors (K100): Continued SCE Installation and receiving material.

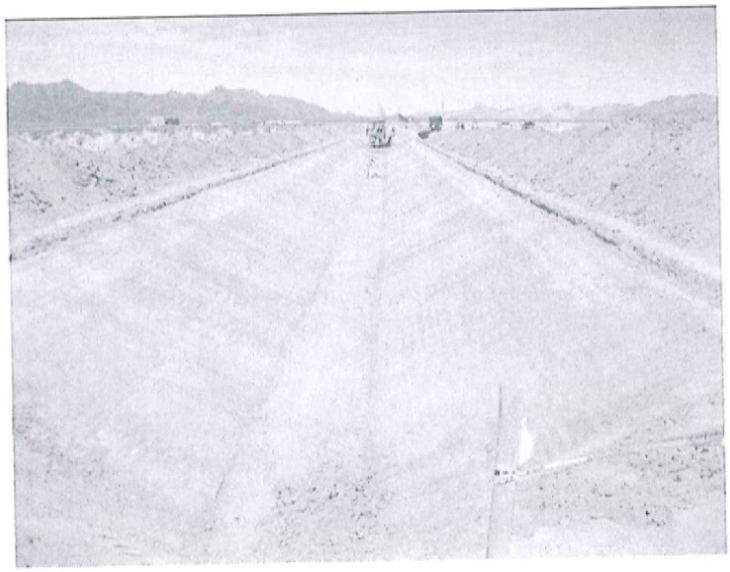
6. Newton (K014): Continue Trenching Excavation Ring 1 Field 1, Fiber Optic/Ethernet cable installation, excavation to service road crossing ring 1-5.

7. Largo (K015): Unit 1 – Stripped forms on the Blowdown/Oily Water Sump. Continued backfill in the piperack. Unit 2 – Continued tying rebar in the ACC and had first pour today in Unit 2. Finished excavation on the STG foundation.

8. SPX (K057): No Activities.

9. SWPD (K006): SWPD onsite to perform bearing repair at Well 2.

10. Trailer City: Continued Working on fire water tank installation for the trailer city complex.



Personnel on Site-

Genesis Team – 23
NAM – 9
SWCA-3
Sukut (K010) –6
Sukut (K008) - 42
PSI Testing (K007) - 4
Terracon – 1
AECOM – 14
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Largo (K015)-28
Blythe Power (K100) – 35
Blythe Power (K011) - 13
BATZ – 1
Newtron (K014) - 18
Sener – 3
Holt Group-2
SWPD-3

Genesis Daily Site Report

March 30, 2012

Safety: No accident or injury.

Safety Topic of the Week: "Flying/Falling Objects"

Weather Conditions: Sunny, Clear, Temp – High 86; Wind- SW 4 mph

Site Compliance: No Issues.

Items completed and working:

1. Site Preparation (K008): Final Balancing and finish grade continued in the Channels, Northern Contour Area of Unit 1, and the Common Area. Unit 2 trap-channel (v-ditch) and catch basin installations continue. Units 1 cut and fill activities worked in Blocks 2 and 4.

2. Sukut (K010): Full time standing water mitigation and dust control on the main access road activities continued.

3. Blythe Power Constructors (K011): No Activities.

4. Largo (K013): No Activities.

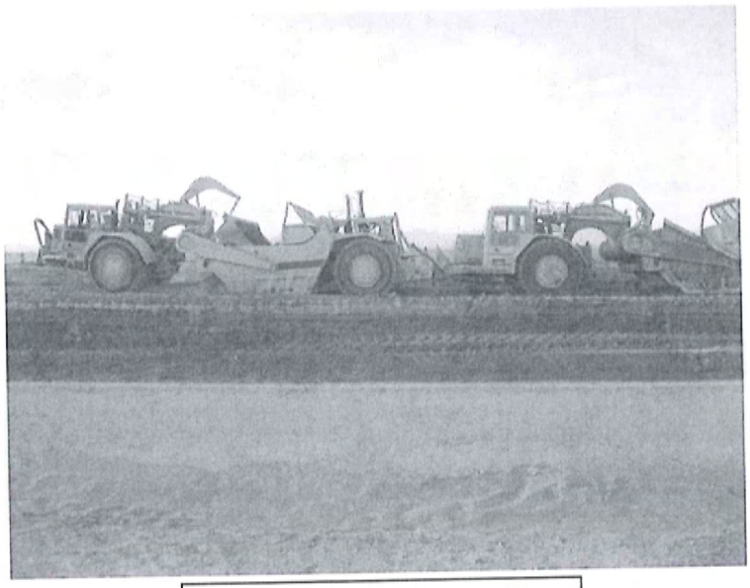
5. Blythe Power Constructors (K100): Continued SCE Installation and receiving material.

6. Newton (K014): Work continues in ring 1/5 Field 1. Excavation, cable installation, fiber optic, Ethernet and grounding. Road crossing- raceway installation complete, place concrete cover Monday, April 2. Continue receiving cable-5kv for ring 7 and fiber complete field one order.

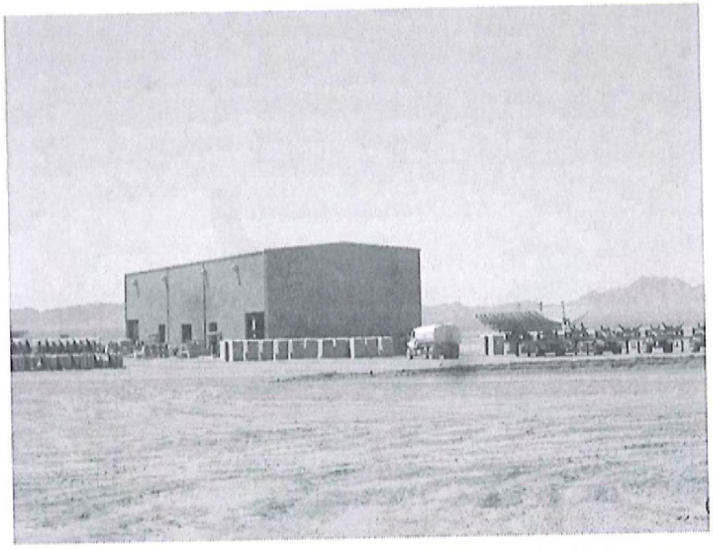
7. Largo (K015): Unit 2- Poured remaining ACC foundation bases.

8. SPX (K057): No Activities.

9. Trailer City: Continued Working on fire water tank installation for the trailer city complex.



Unit 1 Block 2 Earthwork



Assembly Building

Personnel on Site-

Genesis Team – 18
NAM – 9
SWCA-3
Sukut (K010) –9
Sukut (K008) - 42
PSI Testing (K007) - 3
Terracon – 1
AECOM – 14
Guardsmark (K005) – 5
Largo (K013) – 0
Largo (K015)-13
Blythe Power (K100) – 35
Blythe Power (K011) - 0
Newtron (K014) - 20
Sener – 3
Holt Group-2
Total Onsite: 197

Abbreviated WEAP
Read everything not in ( ).

(Introduce yourself.)

I want you to remember five things.

1. Check under your vehicle whenever you park outside the fenced-in project area.
2. The speed limits are posted. The speed limits are 25 mph on dirt and 45 mph on asphalt. Do not pass other vehicles.
3. Watch for animals.
4. Stay on the road.
5. Do not litter.

This is a brief Worker Environmental Awareness Program. The project developer has a responsibility and requirement to protect resources from harm and is required to train all personnel that enter the site. The purpose of the training is to protect sensitive biological resources in our project area which includes the access road and the guard shack area. There are six animals in particular that we are protecting: Desert Tortoise, Mojave Fringe-Toed Lizards, Burrowing Owls, Couch's Spadefoot Toad, Desert Kit Fox, and the American Badger. Additionally, no snakes, reptiles, or other wildlife shall be harmed.

There are animals that have both federal and legal protection in the project area. Harassing, harming, collecting or capturing any of these animals can result in fines of up to $100,000 and jail time.

The desert tortoise can be drawn to our roads as result of spraying water. They will seek the shade cover of parked vehicles and will often be found cooling or resting under bushes. The tortoises spend most of their lives in burrows that have the same dome shape as the tortoise shell. These burrows can be easily crushed. That is why you must check under your vehicle whenever you park and must stay on the road.

The tortoise is a slow moving animal that looks like a round rock with legs. It is very easy to mistake a tortoise for a rock. That is why you must obey the speed limits and watch for animals.

I am going to read the Desert Tortoise page.

Read Page 3.

You are going to be driving about five miles to the fenced-in area. The fence is intended to protect the animals in addition to providing site security. It is your responsibility to help protect the animals along the access road. You can help protect them by not speeding, watching for animals, driving directly to the site, and not stopping or parking until you are inside the fenced-in project area.

I am going to repeat the five things I want you to remember.

1. Check under your vehicle whenever you park outside the fenced-in project area.
2. The speed limits are posted. The Speed limits are 25 mph on dirt and 45 mph on asphalt. Do not pass other vehicles.
3. Watch for animals.
4. Stay on the road.
5. Do not litter. Dispose of litter properly including cigarettes and cigars.

I am now going to show you how to perform an inspection of the ground underneath your vehicle for tortoises.

(Walk driver around vehicle; look under tires – both forward and backward direction; look at the ground underneath the vehicle and the ground in front where the driver cannot see from the cab. Have the driver sign the training acknowledgement.)

Remember obey the speed limits, watch for animals, stay on the road and remember to check under your vehicle whenever parked outside of the fenced-in project area.

FLUOR®

Fluor Enterprises, Inc.
47 Discovery, 412P
Irvine, CA 92618
USA

949-349-3342 tel
949-349-5641 fax

January 10, 2012

Genesis Solar Project
Fluor Contract No. A4PA
Letter No. FAL-0034

Mr. Eric Veerkamp
Compliance Project Manager
California Energy Commission (CEC)
1516 Ninth Street
Sacramento, CA 95814

Dear Mr. Veerkamp:

Re: Genesis Solar Energy Project (09-AFC-8)

COC VIS 4 – Reflective Glare Mitigation Plan

On behalf of Genesis Solar, LLC, we are re-submitting the Reflective Glare Mitigation Plan in accordance with the Condition of Certification (COC) VIS4. The re-submittal of the Reflective Glare Mitigation Plan is in response to comments received by CEC staff on January 5, 2012 to incorporate BLM standard environmental colors to the plan.

With this letter, you will also receive two (2) hard copy of the plans. Please contact Tom Pouncy 949-349-4850 for any questions.

Thank you.

Sincerely,

Chris Jensen
Project Manager
TP AAP
CJ:TP:AP:sb

Attachments: Two (2) Reflective Glare Mitigation Plans

cc: Andy Siegelstein, Genesis Solar, LLC, c/o NextEra, Juno Beach, FL, w/o attachment
Ron Johnson, Genesis Solar, LLC, c/o NextEra, Juno Beach, FL, w/o attachment
Matthew McCord, Genesis Solar, LLC, c/o NextEra, Juno Beach, FL, w/o attachment
Charlyn Mosley, c/o NextEra, Juno Beach, FL, w/o attachment
Art Pinto, Fluor Enterprises, Inc., Irvine, CA, w/o attachment
Jennifer Field, Genesis Solar, LLC, c/o NextEra, Juno Beach, FL, w/o attachment
Tommy Pouncy, Fluor Enterprises, Inc., Irvine, CA, w/o attachment
Sasha Aguilera, Fluor Enterprises, Inc., Irvine, CA, w/o attachment

File No.: G100-210-R

VIS 4 – REFLECTIVE GLARE MITIGATION PLAN

This report has been revised as indicated below. Please disregard all previous revisions.

Revision No.	Date	Originator's Name & Initials	Reviewed/Checked By Name & Initials	Pages
0	10/28/11	Tommy Pouncy	G. Pai	All
1	01/10/12	Tommy Pouncy TP	S. Aguilera SA	3

APPROVALS	SIGNATURES	DATE
Lead Engineer:	S. Aguilera Sasha Aguilera	1/10/12
Engineering Manager:	A. Pinto A. Pinto	10 Jan 12
Client Representative:	M. McCord M. McCord	11 JAN 12

ISSUED FOR: ☐ Design ☐ Construction ☒ Issued For Review

VIS 4 – REFLECTIVE GLARE MITIGATION PLAN

1.0 Purpose 3

2.0 Overview 3

3.0 CEC Approvals 3

3.1 Beige Slat Color 3
3.2 Removal of Every 4th Slat in Wind Fence 3

4.0 Summary 4

5.0 Attachment Section 4

5.1 A4PA-0-SK-0-00-29 – Preliminary Site Fencing Layout 5
5.2 Fencing Supplier Cut Sheet 6
5.3 Pictures of Every 4th Slat Removed from a Fence Supplier 7

VIS 4 – REFLECTIVE GLARE MITIGATION PLAN

1.0 Purpose

The purpose of this plan is to fulfill the California Energy Commission (CEC) Conditions of Certification (COC), VIS-4 – Reflective Glare Mitigation.

This COC requires approval from the CEC 90 days prior to the start of the construction of the fence.

2.0 Overview

A preliminary fencing layout is shown on sketch A4PA-0-SK-0-00-29 Rev. A in Attachment Section. At a minimum all perimeter fencing will be installed 8 feet and higher from grade level. A portion of the fence will be constructed to limit wind velocities on the solar collectors and this portion of the fence is referred to as the "Wind Fence."

The permanent fencing design will be designed in accordance with applicable Laws, Ordinances and Regulations (LORs). The design will be submitted to the Chief Building Official (CBO) for review and approval of applicable LORs.

3.0 CEC Approvals

3.1 Beige Slat Color

1 COC VIS-4 requires the Genesis Project to have slats of a dark tan or earth-tone color to blend with the visual background of the site. The specified color will be similar to BLM standard environmental color "Desert Brown (10Y 6/3)"

The Genesis Project proposes a beige color for the slats. Attachment 5.2 shows a fencing supplier's catalog cut sheet for reference.

3.2 Removal of Every 4th Slat in Wind Fence

The locations of the wind fence are depicted on sketch A4PA-0-SK-0-00-29 Rev. A. The wind fence will be 5 meters (16.4 feet) high and have slats for visual deterrence.

The wind fence is required to reduce the wind velocity on the solar collectors. Wind velocity can effect the operation of the solar collectors and the overall plant efficiency. In order to have the optimum wind conditions for maximum plant efficiency, porosity of the fence is required to be between 30%-50%.

Therefore, to achieve the porosity required every 4th slat will be removed from the wind fence. Attachment 5.3 shows a sample from a fence supplier of having every 4th slat removed.

The alternative to meet the requirements of both porosity and visual deterrence would be to install a mesh. The mesh is more costly and requires more maintenance and is not recommended by the project.

VIS 4 – REFLECTIVE GLARE MITIGATION PLAN

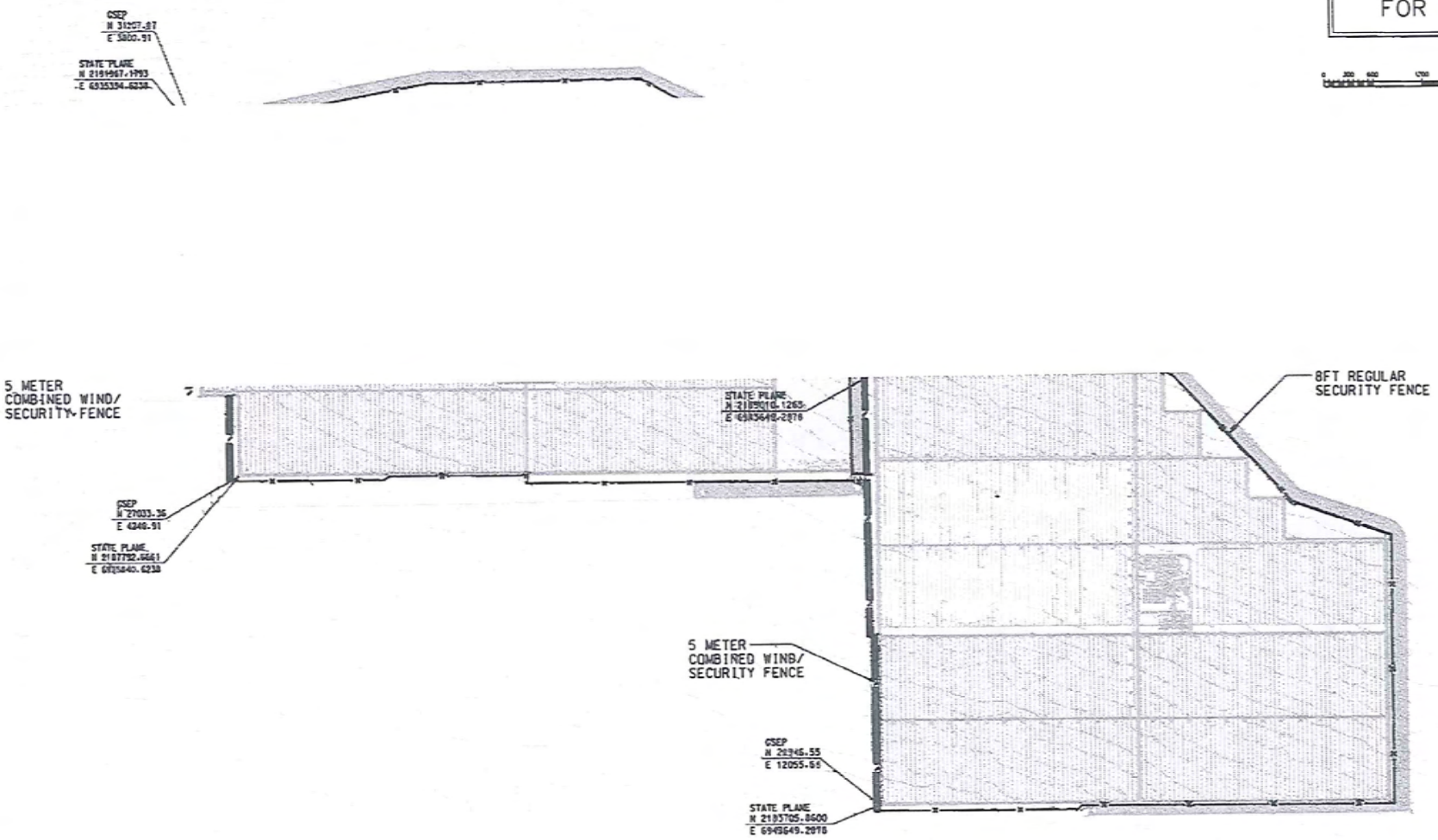
4.0 Summary

CEC approval of items outlined in section 3.1 and 3.2 meet the requirements of verification for VIS-4 Reflective Glare Mitigation.

5.0 Attachment Section

(02/10/11)

FOR REVIEW



REV	DATE	REVISION DESCRIPTION	BY	CHK	APPV	REFERENCE DWG NUMBER	REFERENCE DRAWINGS

THE SEAL APPEARING ON THIS DOCUMENT IS VALID FOR REVISION ONLY WHEN SIGNED AND DATED

FLUOR. Genesis Solar LLC

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CONTRACT A4PA | DRAWING BY HS
ISSUED BY PT
CHECKED BY MC
SUPERVISOR MC | APP DATE
LEAD ENGINEER GP | APP DATE
FLUOR | APP DATE
CLIENT | APP DATE

Genesis Solar Energy Project
Riverside County, California

PRELIMINARY SITE FENCING LAYOUT
UNIT 1 & 2

SCALE 1" = 600'
DRAWING NUMBER A4PA-0-SK-0-00-29
REV A
CAD FILE NAME A4PA-0-SK-0-00-29.DGN

PLOT DATE: 04-MAR-2011 11:09 FILE SPEC: K:\CAD\210\dwgs_IS\Sketch\A4PA-0-SK-0-00-29.dgn

VIS 4 – REFLECTIVE GLARE MITIGATION PLAN

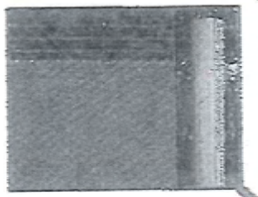
5.2 Fencing Supplier Cut Sheet

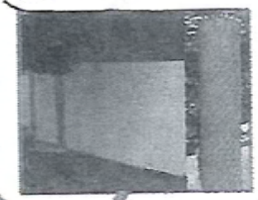
Slat Catalog

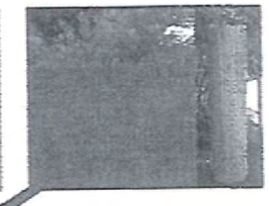
PrivacyLink™ Buyer's Choice
3 1/2" x 5" mesh
is a supreme privacy fabric with slats already in the wire. Is available in 9 and 10 gauge galvanized before weaving (GBW) wire (1.2 oz.) and available in 9 gauge galvanized before weaving (GBW) wire (2.0 oz.) and 9 gauge aluminized wire. Slats and wire are available in 8 different colors. (see below for colors).

PrivacyMaster™
2" mesh
is a supreme privacy fabric with slats already in the wire. Is available in 9 and 11 gauge galvanized before weaving (GBW) wire (1.2 oz.) and available in 9 gauge galvanized before weaving (GBW) wire (2.0 oz.) and 9 gauge aluminized wire. Slats and wire are available in 8 different colors. (see below for colors).

SlatLink™
2" mesh
is a semi-private fabric with slats already in the wire. Is available in 9 and 11 gauge galvanized before weaving (GBW) wire (1.2 oz.) and available in 9 gauge galvanized before weaving (GBW) wire (2.0 oz.) and 9 gauge aluminized wire. Slats and wire are available in 8 different colors. (see below for colors).

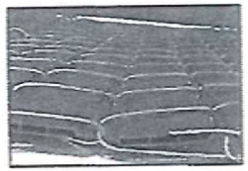






Specifications	PrivacyLink™ 3 1/2" x 5" mesh Buyer's Choice	PrivacyMaster™ 2" mesh	SlatLink™ 2" mesh
Wind load and Privacy factor—approximately	95%	95%	75%
Available in 9 or 11 gauge galvanized before weaving (GBW) Type II class IV wire (1.20 oz.)	No	Yes	Yes
Available in 9 or 10 gauge galvanized before weaving (GBW) Type II class IV wire (1.20 oz.)	Yes	No	No
Available in 9 gauge galvanized before weaving (GBW) Type II class V wire (2.0 oz.)	Yes	Yes	Yes
Available in 9 gauge finish 10 gauge core head and bonded vinyl coated wire—7 colors available—see below	Yes	Yes	Yes
Available in 9 gauge aluminized wire	Yes	Yes	Yes
Self-locking double wall slats (No staples)	Yes	Yes	Yes
Chain link manufactured up to 12' high	Yes	Yes	Yes
Available in 25' rolls, with 5' increment	Yes	Yes	Yes
Slats already inserted into chain link fabric	Yes	Yes	Yes
Available in 8 different colors below	Yes	Yes	Yes
Fifteen Year Pro-Rata Limited Warranty	Yes	Yes	Yes

Supreme Privacy
Chain link *now* available with privacy slats already in the fence. there is no labor required to install slats— saves time and money!



Warranty
Each fence product has a fifteen year Pro-rata limited warranty.

SLAT COLORS

WIRE/CHAIN LINK COLORS

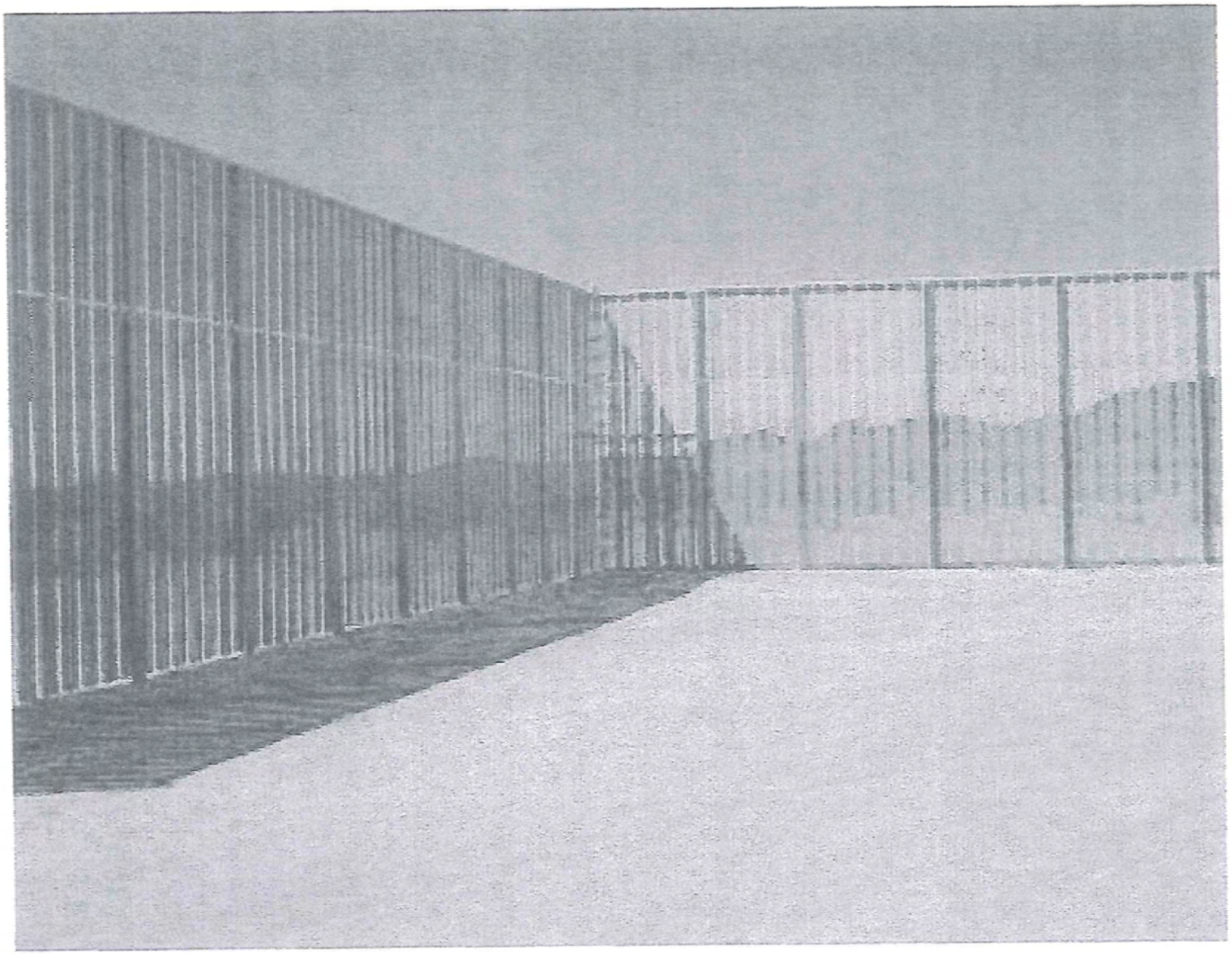
Any color of slat is available with any color of wire. Colors are approximations.

SIMILAR TO BLM STANDARD ENVIRONMENTAL COLOR "DESERT BROWN (10Y 6/3)"

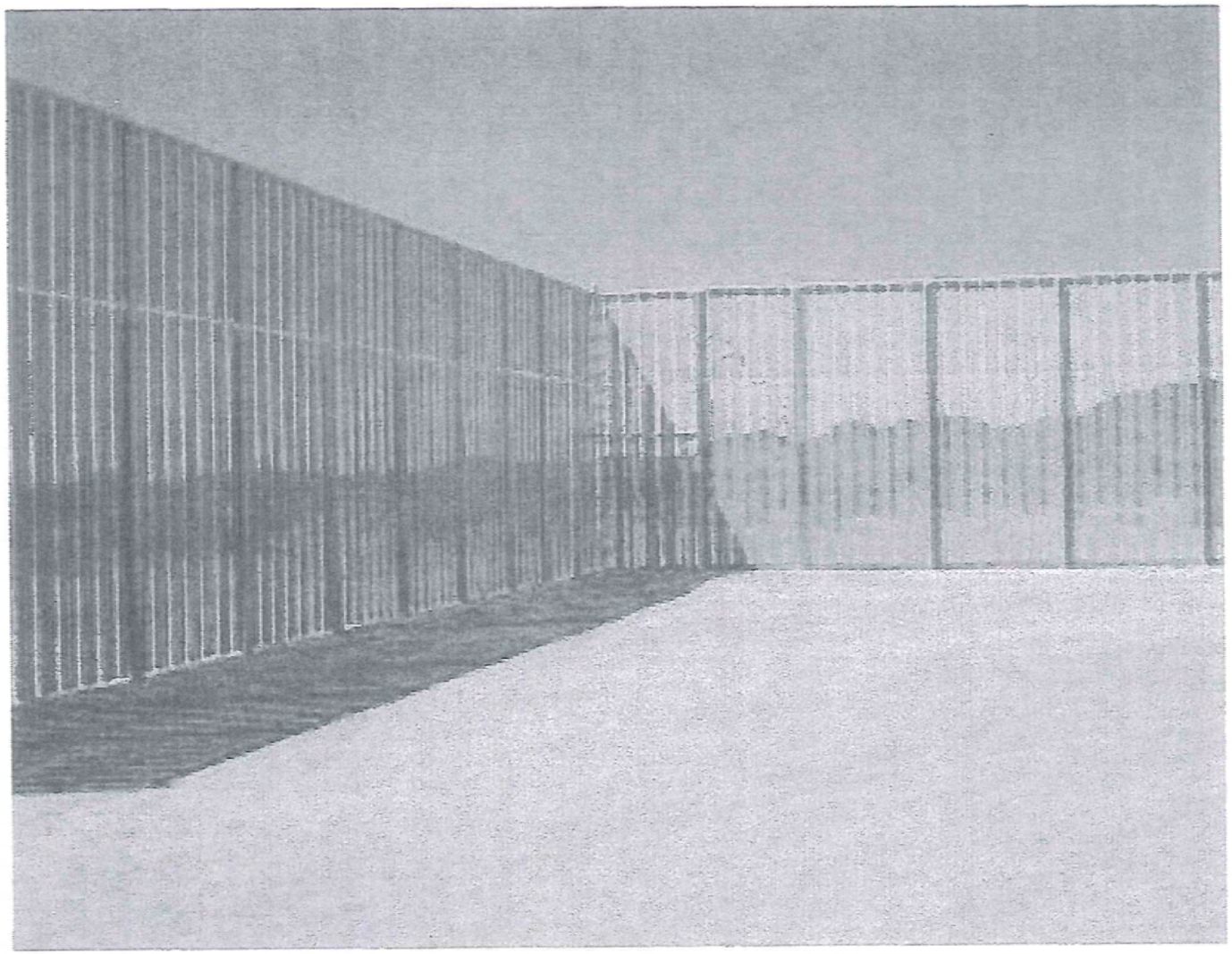
VIS 4 – REFLECTIVE GLARE MITIGATION PLAN

5.3 Pictures of Every 4th Slat Removed from a Fence Supplier

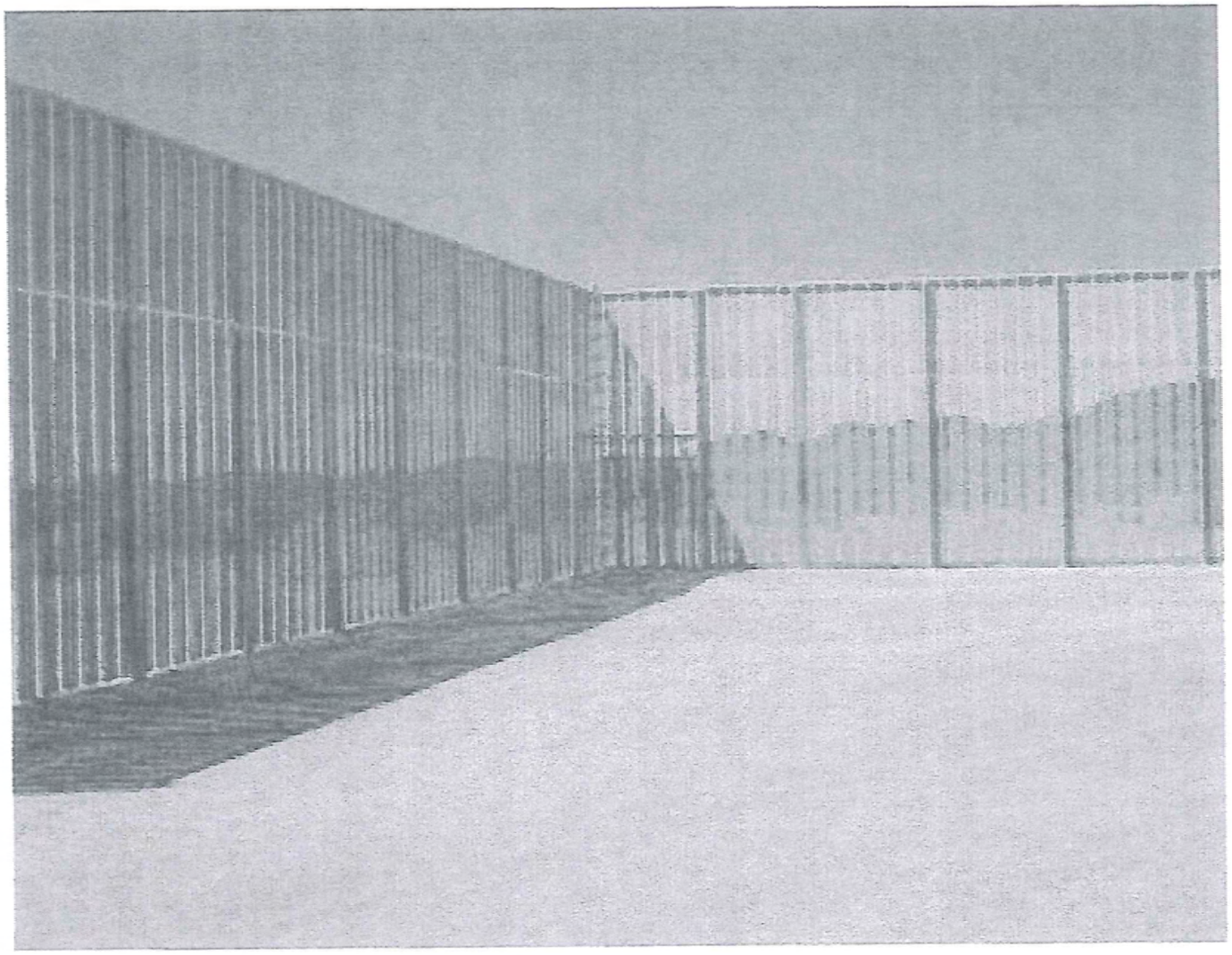
Fence Picture w/ Every 4th Slat Missing (Picture 1 of 3)



Fence Picture w/ Every 4th Slat Missing (Picture 2 of 3)



Fence Picture w/ Every 4th Slat Missing (Picture 3 of 3)



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Fluor Enterprises, Inc.
47 Discovery, 412P
Irvine, CA 92618
USA

949-349-3342 tel
949-349-5641 fax

January 31, 2012

Genesis Solar Project
Fluor Contract No. A4PA
Letter No. FAL-0037

Mr. Eric Veerkamp
Compliance Project Manager
California Energy Commission (CEC)
1516 Ninth Street
Sacramento, CA 95814

Dear Mr. Veerkamp:

Re: Genesis Solar Energy Project (09-AFC-8)

Fire Protection Design Criteria

On behalf of Genesis Solar, LLC, we are submitting the attached Fire Protection Design Criteria for review. The revised package incorporates the requirement of Solar Field Fire Protection.

This Fire Protection Design Criteria package will be the baseline for the Workers Safety 2 - Operations Health and Safety Program section "Fire Prevention Plan", currently under development.

Genesis has submitted this package to the Chief Building Official (CBO), Bureau Veritas through BVNet.

Thank you.

Sincerely,

Chris Jensen
Project Manager
TP NR for AP
CJ:TP:AP:sb

Attachments:

- A4PA-0-DC-4-FP-02 Rev. 3 – Fire Protection Design
- A4PA-0-SK-5-FW-01 Rev. H – Firewater Layout site
- A4PA-0-SK-5-FW-02 Rev. H – Firewater Layout Unit 1
- A4PA-0-SK-5-FW-03 Rev. G – Firewater Layout Unit 2
- A4PA-0-SP-5-01 Rev 1 – Site Plan
- A4PA-2-PP-5-01 Rev 2 – Unit 1 Plot Plan

cc: Ron Johnson, Genesis Solar, LLC, c/o NextEra, Juno Beach, FL, w/o attachment
Andy Siegelstein, Genesis Solar, LLC, c/o NextEra, Juno Beach, FL, w/o attachment
Charlyn Mosely, Genesis Solar, LLC, c/o NextEra, Juno Beach, FL, w/o attachment
Matt McCord, Genesis Solar, LLC, c/o NextEra, Juno Beach, FL, w/o attachment
Art Pinto, Fluor Enterprises, Inc., Irvine, CA, w/o attachment
Tommy Pouncy, Fluor Enterprises, Inc., Irvine, CA, w/o attachment
Cody Bryant, Construction Management Team, w/o attachment
Alvin Greenberg, California Energy Commission, w/o attachment
Sonia Cooley, Riverside County Fire Department w/ attachment
Dale Evenson, Riverside County Fire Department w/o attachment,
Carlos Larios, Bureau Veritas, w/o attachment
Dennis Moss, Bureau Veritas, w/o attachment
Kevin Weidman, Bureau Veritas, w/o attachment

File No.: G100-210-R

Genesis Solar LLC
Genesis Solar Energy Project
Riverside County, California
Project No. A4PA

CONFERENCE NOTES
CN – 0070

Subject: Genesis – Retention Areas in Solar Field 1 and 2

Date of Meeting: March 2, 2012

Place of Meeting: Irvine Spectrum

Issue Date: March 12, 2012

Attendees:

NextEra
Charlyn Mosley
Matthew McCord

Fluor
*Tommy Pouncy
Art Pinto
Chris Jensen
Sasha Aguilera

Construction Management
Jeremiah Westrum

Legend: *+ Part-time* ** Author*

Item No.	Discussion	Action By	Required Date
1.0	Current design of retention areas will flood the LOC electrical systems for the solar collectors during a 10 year rainfall event. Construction of the southwest sections in solar field 1 block 4 and solar field 2, block 5 will be placed on hold until offsite drainage from the plant stormwater system can be reviewed with relevant authorities and engineering can develop a path forward.	Information	--
2.0	Written confirmation is required from the Regional Water Quality Control Board (RWQCB) of requirements for stormwater plant drainage discharged off site. **Post Meeting Note: CEC approval is required for the amount of detention.**	Charlyn Mosley	Complete
3.0	There is no California Energy Commission (CEC) Condition of Certification (COC) requirement of the amount of retention required prior to discharge off site. **Post Meeting Note: The attachment is from the CEC final decision soil and water appendices and item 36 refers to onsite drainage. The findings of fact in the appendices are required to be revised with Regional Water Quality Control Board.**	Matt McCord	13-Apr-2012

Genesis Solar LLC
Genesis Solar Energy Project
Riverside County, California
Project No. A4PA

Conference Notes CN-0070

Item No.	Discussion	Action By	Required Date
4.0	A meeting will be set up after there is written confirmation from the RWQCB to discuss the following possible paths forward: a) Lower the road (acting as a spillway) out of the retention area. b) Redesign of current pipe outlet system of the retention area (i.e. resizing/adding pipes or replacing with multiple weirs).	Sasha Aguilera	16-Mar-2012
5.0	After path forward has been established, revision of drawings and reports will be submitted to the Chief Building Official (CBO) and CEC.	Information	--

Concurred By:

Chris Jensen
Project Manager
TP AP
CJ:TP:AP:sb

File No. 100D-001-RL

Site Specific Hydrogeology

35. Site-specific investigation indicates the water quality in the study area varies laterally and vertically. Generally, water quality improves vertically with depth and laterally to the south. Vertically, water quality is generally the worst in the alluvium followed by the Bouse Formation and finally by the Fanglomerate. Calculated TDS concentrations from borehole geophysical logging indicate TDS concentrations as high as 30,500 mg/L within finer grained units (silt and clay) in the alluvium decreasing to less than 5,000 mg/L TDS in more transmissive sediments in the Bouse Formation at depths of 800 to 900 feet bgs. Laterally, water quality is generally better south and southeast of the Site within all three water bearing units in the basin. The best water quality in the study area is generally in the vicinity of and south of I-10.

On-site Drainage

36. On-site storm water management for the completed Facility will be provided through the use of source control techniques, site design and treatment control. The storm flows from the solar collector arrays will be treated through the use of swales, ditches and detention ponds. Minimum preliminary volumes required for the detention basins are 66 acre-feet for Unit 1, and 49 acre-feet for Unit 2. These volumes are based on the detention ponds receiving the 100 year, 24 hour event post-development runoff from the Project site, and then discharging the run-off at the pre-developed rate into the existing drainage system. The Riverside County Best Management Practice (BMP) Manual requires extended detention basins to release runoff over a 48 hour draw down period, and the outlet sized to retain the first half of the design volume for a minimum of 24 hours.

37. Locations within the power block for the potential of chemical or oil releases will be fully contained. Rainfall within the containment areas will be allowed to evaporate or will be drained through an oil water separator. Locations within the power block where "contact" storm water may occur will be contained within a system of curbs or trenches. Drains from these curbed areas or containment trenches will be directed to an oil water separator. The oil separated and captured within the oil water separator will be trucked off-site to a licensed disposal/recycling Facility. Clean water discharged from the oil water separator will be used on Project site by discharging it to the cooling tower or to the raw water storage tank. The water discharge from the oil water separator will not be discharged to the storm water system.

Facility Operational Water

38. Water to supply the project will be derived from a minimum of two new groundwater supply wells located near each unit's power block area. The wells will pump groundwater from the Bouse Formation below a depth of 780 feet bgs. Two wells at each units power block will provide redundancy in the event of outages or maintenance.

39. The average total annual water usage for each 125 MW unit is estimated to be about 822 acre-feet per year (afpy), or 1644 afpy for the Project, which corresponds to an average daily flow rate of about 1000 gallons per minute (gpm). Usage rates will vary during the year and will be higher in the summer months when the peak maximum flow rate (instantaneous daytime maximum rate) could be as high as about 2,013 gpm for

DRAFT November 1, 2011

FLUOR®

Fluor Enterprises, Inc.
47 Discovery, 411P
Irvine, CA 92618
USA

949-349-3342 tel
949-349-5641 fax

March 14, 2012

Genesis Solar Project
Fluor Contract No. A4PA
Letter No. FAL-0043

Mr. Eric Veerkamp
Compliance Project Manager
California Energy Commission (CEC)
1516 Ninth Street
Sacramento, CA 95814

Dear Mr. Veerkamp:

Re: Genesis Solar Energy Project (09-AFC-8)

COC HAZ6 – Operations Site Security Plan

On behalf of Genesis Solar, LLC, we are re-submitting the Operations Site Security Plan in accordance with the Condition of Certification (COC) HAZ6.

In the attachment section of the Operations Site Security Plan are sample affidavits that will be signed prior to Commercial Operation Date (COD).

With this letter, you will also receive two (2) hard copies of the plans. Please contact Tom Pouncy 949-349-4850 for any questions.

Thank you.

Sincerely,

Chris Jensen
Project Manager
TP AP
CJ:TP:AP:sb

Attachments: Two (2) - Operations Site Security Plan

cc: Andy Siegelstein, Genesis Solar, LLC, c/o NextEra, Juno Beach, FL, w/o attachment
Ron Johnson, Genesis Solar, LLC, c/o NextEra, Juno Beach, FL, w/o attachment
Matthew McCord, Genesis Solar, LLC, c/o NextEra, Juno Beach, FL, w/o attachment
Charlyn Mosley, c/o NextEra, Juno Beach, FL, w/o attachment
Jennifer Field, Genesis Solar, LLC, c/o NextEra, Juno Beach, FL, w/o attachment
Art Pinto, Fluor Enterprises, Inc., Irvine, CA, w/o attachment
Tommy Pouncy, Fluor Enterprises, Inc., Irvine, CA, w/o attachment
Sasha Aguilera, Fluor Enterprises, Inc., Irvine, CA, w/o attachment
Gary Mack, Fluor Enterprises, Inc., Irvine, CA, w/o attachment

File No.: G100-210-R

Genesis Solar LLC
Genesis Solar Energy Project
Riverside County, California
Project No. A4PA

Hazardous Materials Management Operations Site Security Plan HAZ-6

Submitted to:
California Energy Commission
Sacramento California

Submitted by:
Genesis Solar, LLC

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1.0 INTRODUCTION

This document provides methods and information outlining the Genesis Site Specific Security Plan during and after construction of the Genesis Solar Energy Project, near Blythe, California.

Due to the large area this project encompasses, the construction of this project will be achieved in two different construction phases. Phase 1 will consist of the construction of the private main entrance road (approximately 6.5 miles) and phase 2 will be construction of the plant site proper.

This document also describes the minimum technical requirements for the design of a Security System to be installed in conjunction with a Concentrating Solar Power (CSP) power plant. The Genesis facility shall consist of two solar fields consisting of Solar Trough Panels that use a tracking system to follow the sun. The sun's energy is concentrated by parabolic curved, trough-shaped reflectors onto a receiver pipe running along the inside of the curved surface. This energy heats oil flowing through the pipe and the heat energy is then used to generate electricity in a conventional steam generator. The collector fields shall be comprised of many troughs in parallel rows aligned on a north-south axis. This configuration shall enable the single-axis troughs to track the sun from east to west during the day. Power meters are used to monitor the output voltage up to the point of interconnect to the grid. The Genesis Plant Power Blocks will generate approximately 125 megawatts of electricity each for a combined total output of 250 megawatts.

The Genesis Solar Plant will be constructed approximately 6.5 miles N/W of the 10 Freeway and Wiley's Well Road exit which is approximately 20 miles west of the town of Blythe "as a point of reference" and is located in the South Eastern area of Southern California. An access road shall be constructed to provide vehicles with paved road access to the Solar Plant. A fiber optic data communication connection to the Local Exchange Carrier (LEC) will be provided for interactive plant data communications to critical outside interfaces. The installation of a fiber optic data communication cable will include the construction of an approximately 6.5-mile fiber optic data transmission cable that will provide a data communication interface for the plants outgoing and incoming data connections. The fiber optic cable shall support splice panels to interconnect the Security System from the plant private access road entrance gate to the head-end Security System interfaces located in the plant site common area Administration and Control Building. The fiber optic data transmission cable shall be armored in design, constructed for aerial, buried and duct installations and run in parallel with a 12kV electrical transmission line (both to share the same transmission line poles). The new fiber optic data transmission cable, 12kV transmission line, access road, and a natural gas pipeline will generally be co-located in one linear corridor to serve the main project facility.

2.0 PERMENANT FENCING

The permanent fence will consist of both an 8'-0" high security fence topped with barbed wire and on the west side of each solar field the fence will be 16'-0" high without barbed wire.

In the attachments, sketch A4PA-0-SK-00-29, shows the extent of each the 16'-0" high wind fence and 8'-0" high security fence.

3.0 MAIN ENTRANCE SECURITY GATE

The main entrance security gate will be motorized. Further details of the controls are outlined in section 7.0 Site Access Controls.

4.0 EVACUATION PROCEDURES

The evacuation procedures establish the planned response actions that will be taken by personnel at the Genesis Facility in the event of an emergency situation.

It is the responsibility of the Site/Plant Leader to assess a developing emergency situation and initiate the appropriate actions to protect personnel, the surrounding environment, and plant equipment from adverse damage. In the event of an emergency the following actions will be performed:

- In the event there is a fire, medical or police emergency - contact 911 immediately.
- If the event is a fire, medical, police, weather-related ensure the following are also contacted: Production Manager (Emergency Coordinator); Operations Specialists (Emergency Coordinator); Maintenance Specialists (Emergency Coordinator)
- Any work-related permits in effect shall be voided and personnel involved in such work shall cease all activities.
- Based upon the type and extent of the emergency, the Site/Plant Leader should access whether an evacuation should be initiated. The Site/ Plant leader will determine the severity of the emergency and determine if the operations staff should conduct a controlled shutdown of equipment or it is necessary for everyone vacate the site/area to remove personnel from immediate danger.

If the Site/Plant Leader (or Emergency Coordinator) determines that an evacuation is necessary, they shall ensure that a sounding of the plant alarm system is initiated. The evacuation alarm should be sounded and all employees/visitors accounted for.

If an evacuation has been directed and following the sounding of the evacuation alarm, the Site/Plant Leader shall ensure that instructions for the evacuation are communicated to personnel over the plant radio system. The instructions should include the nature of the emergency / the location of the emergency / the muster point to be used / and egress routes that should not be used by evacuating personnel.

The primary evacuation point will be the parking lot of the administrative building in the common area (outside the control room building). The secondary muster point will be outside the main access gate on the east side of solar field for Unit 2.

Once the emergency has ended and the site deemed safe for operations and work the Site/Plant Leader (or Emergency Coordinator) will communicate the all clear to personnel over the radio. Personnel are not allowed back into the areas that have been evacuated until the all clear signal is communicated from the Site/Plant Leader (or Emergency Coordinator).

5.0 PROTOCOL FOR CONTACTING LAW ENFORCEMENT

Communication with law enforcement and other emergency support will be coordinated through the control room to ensure all activities are coordinated on-site. Contact for all emergency support for the site will be made through the 911 system to ensure the proper emergency support is notified. If any personnel on-site are in need of emergency services they shall contact the control room through the plant radio system to let them know what support they need and their location. The control room will then call 911 to request services and coordinate on-site activities.

6.0 RECEIPT OF SUSPICIOUS PACKAGES

In the event that the site receives threatening correspondence either by phone or other means of communication or there is a suspicious package received on-site the following actions should be performed immediately:

Actions by the plant personnel receiving the threat:

- Gather as much information as possible from the person making the threat. If the threat is via written correspondence, place the correspondence in a location in which it will not be touched or otherwise disturbed until police can be contacted. If the threat is made verbally (phone, or other), communicate and obtain as much information from the individual making the threat as possible.
- Inform the Site/Plant Leader and General Manager of the situation.

Actions by the plant personnel, contractors and vendors discovering a suspicious object or package on or near the plant site:

- Leave the suspicious object / package in site.
- Do not try to open the package.
- Note any details easily visible about the object / package.
- Inform the Site/Plant Leader of the situation.

The Site/Plant Leader and/or General Manager may consider any or all of the following actions to take in response to the situation:

- Order an evacuation of the facility.
- Call 911 for Police or Fire Assistance
- Arrange for additional security personnel for the facility.
- Direct plant personnel to commence a controlled shutdown of the facility.

Signed Affidavit forms are in the Attachment Section.

7.0 SITE ACCESS CONTROLS

The Genesis Solar Plant Security System shall be comprised of an Access Control System (ACS) and Closed Circuit Television (CCTV) System designed to provision a fully functional, efficiently integrated total plant solution. The ACS shall be comprised of Proximity "Badge" Readers, Intercoms, Door Locks, Monitor Screens, Matrix server(s), User Workstations. A Security Software Application package shall be installed on the Server(s) and workstations to monitor and manage the operation and control of the ACS and CCTV devices. The CCTV system shall be comprised of IP enabled network cameras installed at the plant Access Road Entrance Gate, Main Access Gate, Power Blocks, and Admin-Control Building to provide a fully integrated and secure view of all critical locations throughout the plant.

The Genesis Solar Plant Security System shall be installed at various locations throughout the plant and is further described in the following sections:

- ACCESS ROAD - SECURITY GATE ACCESS CONTROL AND CCTV - (SEC. 7.1)
- MAIN PLANT ENTRANCE - SECURITY GATE ACCESS CONTROL AND CCTV- (SEC. 7.2)
- SECURITY SYSTEM COMPONENTS - (SEC.7.3)
- CONTROL ROOM - ACS, CCTV CONTROL AND MONITORING - (SEC. 7.3)
- POWER BLOCK AND COMMON AREA - ACS AND CCTV - (SEC. 7.5)
- SECURITY SYSTEM UNINTERRUPTED POWER SUPPLY (UPS) - (SEC. 7.6)

7.1 ACCESS ROAD - SECURITY GATE ACCESS CONTROL AND CCTV

The Genesis Plant will have two security gates that all traffic must pass through prior to entering into the interior region of the plant. The first point of entrance is the Wiley's Well "Plant Access" Road, which, will serve primarily as a screening gate for visitors while also providing a discretionary deterrent to the general public. The Genesis Plant access road is a road that transitions from Wiley's Well Road to a private right of way approximately ¼ mile past the public rest stop. The access gate entrance shall be used to discourage non-authorized vehicles

from attempting to drive onto the access road. The Access Road Entrance gate shall be provisioned with the following Security System components:

- Pan Tilt and Zoom (PTZ) Cameras (Area Surveillance)
- Fixed Cameras (Identity Management)
- Intercom (Voice Communication Transport)
- Proximity Readers (Security Badge Access for Authorized Personnel)
- Ground Loops (Vehicular Detection)
- Boom Gates (Blocks Unauthorized Vehicular Access)
- Area Lighting (Night Visibility)
- Fiber Splice Panel (Data Communication Transport)
- Power Panel (Local Power Requirements)
- Underground Conduits (Power and Data Interconnectivity)
- Vandal Proof Security Equipment Enclosure (Equipment Protection)
- K12 Rated Bollards (Equipment Protection)

The installation of the above components shall be utilized to manage the ingress of vehicles onto the Private Genesis Access Road (Wiley's Well Road). With exception to the fiber splice panel, power panel and ground loop sensors, all security equipment shall be located on a concrete island constructed in the middle of the access road. The fiber splice panel and power panel shall be located near a transmission line pole constructed to carry both power and fiber and shall be the origination point for all power and data specific underground conduits that interconnect the entrance gate security equipment located approximately 300 ft to the East.

Authorized access to the Plant Access Road shall be granted to employees and authorized individuals using a Security Badge issued by Genesis Security Personnel. A valid security badge detected by the entrance gate proximity reader shall raise the boom gate and allow one (1) vehicle to pass and shall be a security system controlled function that does not require human intervention. Ground Loop Sensors shall be installed fore and aft of both entrance and exit Boom Gates to allow the Security System to detect approaching vehicles and determine when vehicles have entered into or exited from the Plant Access Road.

A security stanchion shall be installed on a concrete security island to support two (2) fixed cameras, two (2) proximity "badge" readers and one (1) intercom. A single camera and proximity reader shall be grouped and installed using height requirements to support large vehicles and semi trucks and a single camera and proximity reader shall be grouped and installed using height requirements to support passenger vehicles. The intercom shall be installed between the upper and lower equipment groupings. This combination shall provide arriving vehicles with the ability to electronically communicate to plant operators without exiting their vehicle.

All Visitor's and Guests may be granted access by authorized plant personnel and shall be accomplished by using both a fixed camera and intercom as a visual and audible means of communications. Plant personnel using ACS software and/or hardwired switches may electronically grant approved guest and visitor access from the remote Control Building.

For Visitors and Guests that are denied access, a paved turnaround pad shall be constructed to allow all vehicles the required clearance to turn a vehicle around and exit the entrance gate area.

Exiting of vehicles leaving the Genesis Plant Access Road shall be accomplished using a ground loop to detect outbound vehicles as they approach the exit gate. The Security System shall interpret the signal and raise the exit Boom Gate. A second ground loop will be installed just past the exit gate to detect the exited vehicle and immediately signal the gate to lower.

All access gate equipment shall be both weather proof and vandal proof in design and housed in vandal proof enclosures. Due to the wide-open nature of the plant and plant access road, vandal-proofing the security equipment shall require using bullet-proof enclosures for equipment located on, near or outside the plant perimeter. The use of K12 rated bollards shall be installed around the concrete security island to protect equipment from vehicular damage.

Outdoor security lighting shall be installed for the access gates. Outdoor area lighting shall consist of permanently mounted fixtures secured to the concrete security island and shall provide access lighting for maintenance vehicles and security. The lighting system shall be designed to provide nighttime lighting levels consistent with applicable illuminating Engineering Society standards, California Energy Commission Conditions of Certifications and Riverside County zoning ordinances.

Two (2) PTZ security cameras shall be installed one mounted to each of the two (2) light poles located on the security island and shall be used to monitor inbound and outbound traffic including the surrounding area. Each camera shall be capable of viewing 360° for redundant coverage capabilities. Cameras shall be designed specifically for harsh climates with integrated active cooling and reliable video surveillance designed for desert environments. The high-speed PTZ camera shall support powerful zoom and High Definition Television (HDTV) resolution of 1080p, operate in heat up to 167 °F with the ability to withstand sandstorms and conform to military standard, MIL-STD-810G.

7.2 MAIN PLANT ENTRANCE - SECURITY GATE ACCESS CONTROL AND CCTV

The Main Plant Security Entrance Gate is the second gate to pass through prior to gaining entrance into the Genesis Plant, this gate is located at the east side of Solar Field #2 and is approximately 6.5 miles N/W of the Access Road Security Gate. The Genesis Plant access road transitions to the plant interior at the main gate entrance. A gate shall be installed to prevent access of non-authorized vehicles. The Main Plant Entrance Gate will at minimal be provisioned with the following Security System components:

- PTZ Camera
- Fixed Camera
- Intercom
- Proximity Reader
- Vehicle Detection
- Gate
- Lighting
- K12 Rated Bollards

The installation of the above components shall be utilized to manage the ingress of vehicles into the Genesis Plant interior. A fiber splice panel and power panel shall be provisioned in close proximity to the security equipment enclosure.

Authorized access to the Genesis Plant shall be granted to employees and authorized contractors using a Security Badge issued by Genesis Security Personnel. A valid security badge detected by the entrance gate proximity reader shall activate the opening of the gate allowing a single vehicle to pass and shall be an automated function that does not require human intervention.

The main gate entrance will utilize a motorized sliding security gate. A security stanchion shall be installed to support fixed cameras, proximity "badge" readers and an intercom. A single camera and proximity reader shall be grouped and installed using height requirements to support large vehicles and semi trucks and a single camera and proximity reader shall be grouped and installed using height requirements to support passenger vehicles. The intercom shall be installed between the upper and lower equipment groupings. This combination shall provide arriving vehicles with the ability to electronically communicate to plant operators without exiting their vehicle.

All Visitor's and Guests may be granted access by authorized plant personnel and shall be accomplished by using both a fixed camera and intercom as a visual and audible means of communications. Plant personnel using ACS software and/or

hardwired switches may electronically grant approved guests and visitor's access from inside the remote Control Building.

Visitors and Guests that have been denied access shall be required to exit utilizing the two lane access road they arrived on. Note: This should be a rare occurrence based on traffic screening processes at the access road entrance gate.

Exiting of vehicles leaving the Genesis Plant shall be accomplished using an automated vehicle detection device as they approach the exit gate. The Security System shall process a signal and open the Sliding Gate. Similarly, an automated vehicle detection device will sense the vehicles exit and signal the gate to close.

All access gate equipment shall be both weather proof and vandal proof in design and/or housed in vandal proof enclosures. The use of K12 rated bollards shall be installed around the concrete security island to protect equipment from vehicular damage.

Outdoor security lighting shall be installed for the access gates and shall consist of permanently mounted fixtures secured to the security island and shall provide access lighting for maintenance vehicles and security. The lighting system shall be designed to provide nighttime lighting levels consistent with applicable illuminating Engineering Society standards and Riverside County zoning ordinances.

A PTZ security camera shall be mounted to the security island light pole with a default homed position facing south to monitor inbound/outbound access road traffic and surrounding area. A PTZ Camera shall be installed on a light pole located inside the plant perimeter facing west to monitor all inbound/outbound plant access road traffic and surrounding area. Each camera shall be capable of viewing 360° for redundant coverage capabilities. Cameras shall be designed specifically for harsh climates with integrated active cooling and reliable video surveillance designed for desert environments. The high-speed pan/tilt/zoom cameras shall support powerful zoom and HD resolutions, operate in extreme heat and withstand sandstorms.

7.3 SECURITY SYSTEM COMPONENTS

The Genesis Security System shall be a General Electric M3000 Access Control System (ACS) and shall manage security for all areas of the plant. The Security System shall at minimal be equipped with the following features and include the following components to facilitate a fully functional complete security system.

- Card Readers, Intercoms, Cameras
- Access Gates
- Door Locks

- Security Workstations, Security Server, Security Application Software
- Digital Video Recorder "DVR" Large Screen TV Monitors
- K12 Rated Bollards
- UPS - (24 hour minimal, Battery Backup for all outdoor equipment)

Note: all Outdoor Equipment shall be rated to withstand temps in excess of 130° F or protected by using sun shades, equipment covers or installed in protected areas to avoid excessive temperatures.

7.4 CONTROL ROOM ACS, CCTV CONTROL AND MONITORING

The Control Room shall have multiple CCTV monitors capable of providing a selection of viewing options for all plant Cameras. Monitors shall be capable of segmental viewing; the receiving inputs shall come from dual monitor display cards installed in each of the Security System workstations located in the control room and shall be located within close proximity to a video wall monitor. The Security System workstations shall provide redundant controls of all CCTV views so that in the event one of the workstations fails or requires offline maintenance, full CCTV control can be maintained without interruption. The security workstations shall allow operators or security personnel to manually operate the cameras through security software control inputs. Additionally manual joystick provisioned keyboard controllers shall be installed at each of the security system workstations to enable control operators to have full CCTV control without tying up workstations. The default CCTV viewing parameters shall be configured to provide operators and security personnel with optimal views for all cameras based on the area coverage and functional security role of each camera.

CCTV Cameras shall be a combination of both Fixed and PTZ styles, PTZ cameras shall be used for area monitoring, Fixed cameras shall be used at Security Gates, Control Building Main Entrance and each of the Control Room Entrances for Identity Management. The integrated functionality of cameras and security server software shall provide a Security System capability of detecting motion, presenting an alarm and automatically zooming and tracking the motion until human intervention validates or dismisses the condition. This process is referred to as an automatic call-up and shall also apply to the proximity readers in the event that an invalid card read occurs (where a card reader controlled door is held or forced open). CCTV Cameras shall be configured with presets that detect ACS alarm conditions and automatically zoom to the alarm event location. In the case of simultaneous alarms, each alarm shall be sequentially queued and the associated video shall automatically call-up and display on a monitor. Intercoms shall be installed at each of the Vehicle Gates, Control Room Entrance Doors, the Control Building Main Entrance, Control Room Operator Consoles and all Power Block and Common Area buildings provisioned with a proximity reader. The intercoms shall provide 2-way voice communications for Control Room

Operators and/or Receptionist. Intercoms shall operate interactively and seamlessly with Cameras and Proximity Readers. Intercoms shall be used primarily to identify individuals seeking entrance to the Genesis Plant facilities. If a Control Operators or Receptionist verify and approve requested access they can invoke remote activation of gates or open/unlock security provisioned doors granting entrance via the interactive Security System software and/or electronic signaling via a manually activated remote relay switch. In the event of a plant emergency where non-badged individuals i.e. Police Officer or Fireman require access to a remote building equipped with an Intercom, an Intercom access request may be granted via the security system.

A Network Video Recorder (NVR) shall be provisioned to store video records and shall include time frame of events captured during certain periods. The digital video recorder along with all Servers, Network Switches, Interface Devices, Power Supplies and Auxiliaries shall be installed in network racks in the DCS/IT room located on the first floor of the Admin-Control Building.

7.5 POWER BLOCKS AND COMMON AREA ACS AND CCTV

Power Block 1, Power Block 2 and Common Area buildings shall be provisioned using PTZ Dome Network Cameras with integrated active cooling and reliable video surveillance designed for desert environments. The high-speed pan/tilt/zoom cameras shall support powerful zoom and HD resolutions, operate in extreme heat with the ability to withstand sandstorms. The Cameras shall support advanced climate control system and handle rapid temperature changes to eliminate condensation. Cameras shall be IP66 and NEMA 4X-rated making it dust and waterproof. Cameras shall support day and night functionality, wide dynamic range, H.264, automatic guard tour, preset positioning, alarm management and auto-tracking.

The Power Block PTZ cameras will be strategically located approximately 70 ft above grade so that each camera can be dedicated to constant monitoring of the Power Block perimeter, enabling a full spectrum panoramic view. The automated security system software will remotely control all monitoring cameras enabling the camera to activate, focus and track suspected changes in the video field. The cameras will be capable of remote 360° directional and zoom-focus control for human intervention as required.

Power Block 1 and Power Block 2 buildings shall have Proximity Readers and Intercoms installed to the left of the access door for the following buildings/rooms; Electronics Room, Workshop/Storage Room North, Workshop/Storage Room South, Electrical Room, Battery Room, PDC. The PDC shall have a homerun fiber connection to the Electronics Room Layer 2 aggregate switch. A fiber optic link to the Admin-Control Building head end security

switches shall be a homerun originating at the Electronics Room Layer 2 aggregate switch. All other access doors in each of the power blocks shall be keyed lock entry and require individuals seeking access to obtain a key by providing their personal information as part of the facilities access policy.

Water Treatment Common Area buildings shall have Proximity Readers and Intercoms installed to the left of the access door for the following buildings; Waste Water Treatment building and PDC building. The Waste Water Treatment building shall have a homerun fiber connection to the PDCs Layer 2 aggregate switch. A fiber optic link to the Admin-Control Building head end security switch shall originate at the PDCs Layer 2 aggregate switch. All other access doors in the Water Treatment Common Area shall be keyed lock entry and require individuals seeking access to obtain a key by providing their personal information as part of the facilities access policy.

7.6 SECURITY SYSTEM UPS

All Security System components shall be designed for 'clean' UPS or generator power enabling at minimal 24 hours of uninterrupted operation. This includes CCTV Cameras, Proximity Readers, Intercoms, Monitoring Equipment (servers, workstations, NVR's), Security Network Switches and or Media Converters, Gates and all Security Area Lighting.

8.0 SIGN STATEMENT OF RECEIVING HAZARDOUS MATERIAL

See the attached signed form in the attachments section.

9.0 SECURITY MONITORING SYSTEM

In section 7.0 Site Access Control, the monitoring system is discussed.

10.0 PERIMETER SECURITY

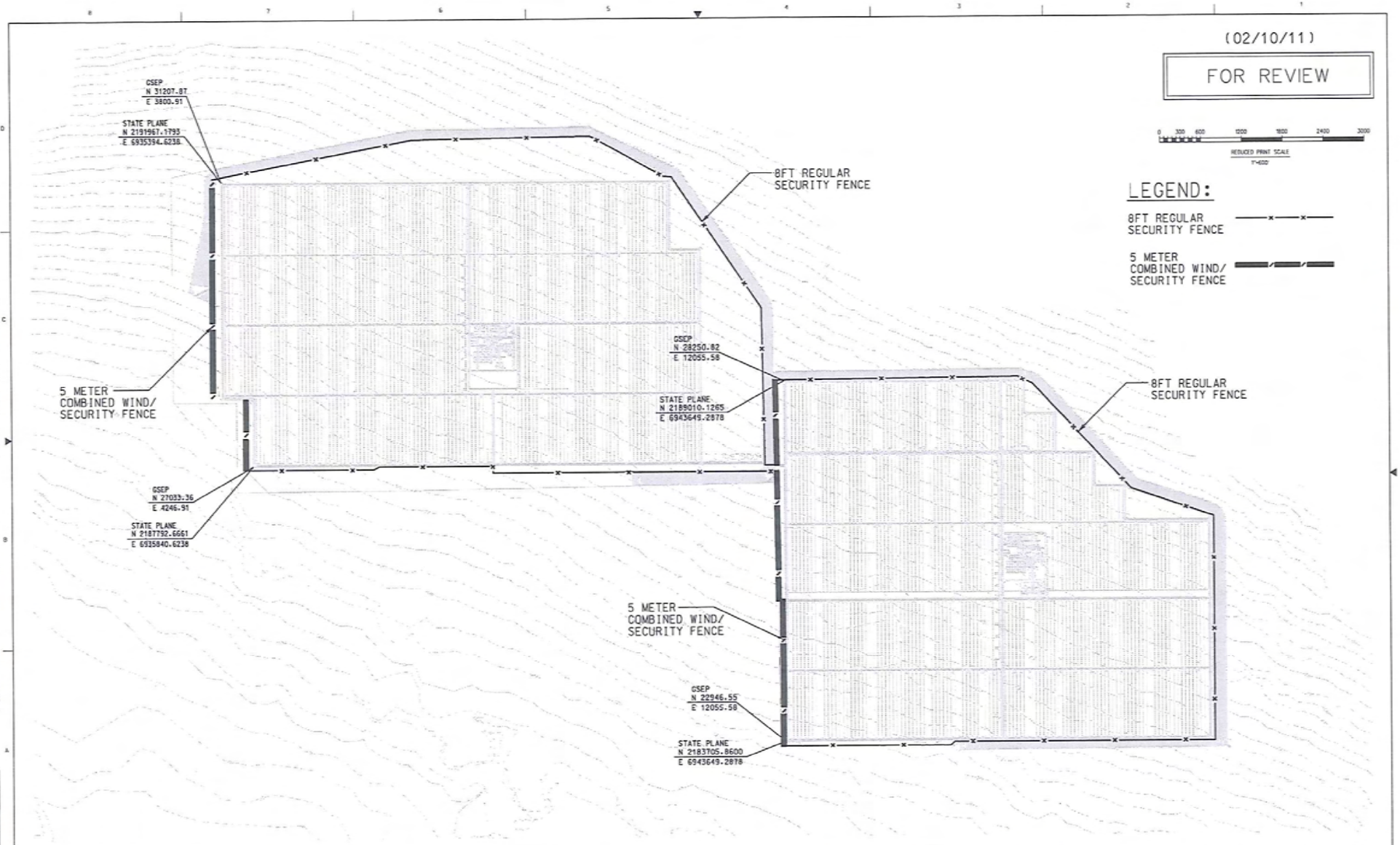
The Genesis Plant will have 24 hour plant personnel and provide CCTV able to view both site entrance gates and 100% of the power block perimeter. Further detail of the Genesis Plant monitoring system is stated in section 7.0 Site Access Control.

11.0 ATTACHMENTS

- A4PA-0-SK-0-00-29 Fencing Plan
- Genesis Security Overview (For Reference)
- Signed Affidavits

(02/10/11)

FOR REVIEW



REDUCED PRINT SCALE
1"=600'

LEGEND:

8FT REGULAR SECURITY FENCE

5 METER COMBINED WIND/ SECURITY FENCE

REV	DATE	REVISION DESCRIPTION	BY	CHK	APPV	REFERENCE DWG NUMBER	REFERENCE DRAWINGS

THE SEAL APPEARING ON THIS DOCUMENT IS VALID FOR REVISION ONLY WHEN SIGNED AND DATED

FLUOR. Genesis Solar LLC

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LEAD ENGR/SPEC. GP	APP DATE	
FLUOR	APP DATE	
CLIENT	APP DATE	

Genesis Solar Energy Project
Riverside County, California

PRELIMINARY SITE FENCING LAYOUT
UNIT 1 & 2

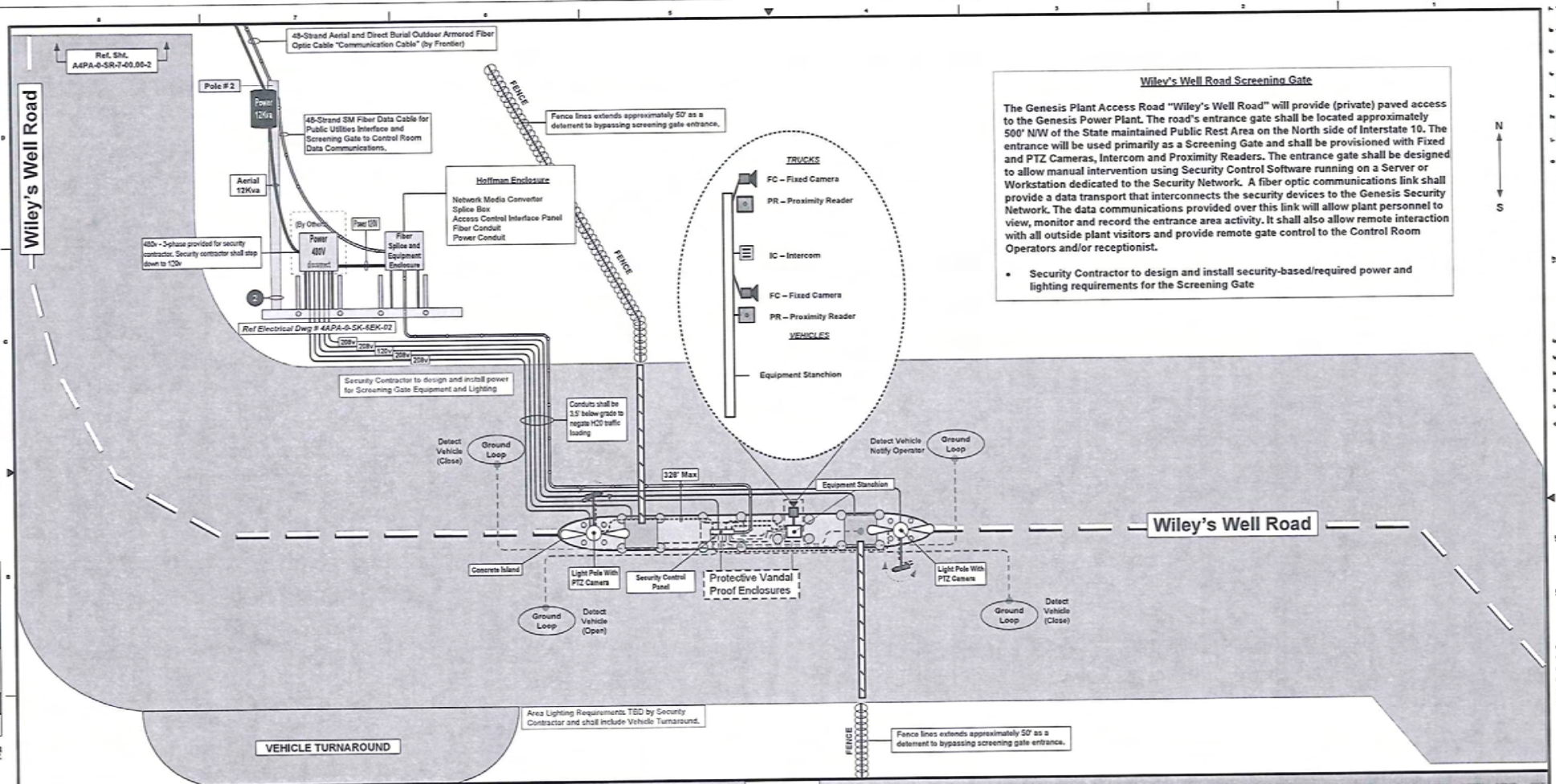
SCALE 1" = 600'

DRAWING NUMBER A4PA-0-SK-0-00-29

REV A

CAD FILE NAME A4PA-0-SK-0-00-29.DGN

PLOT DATE: 04-MAR-2011 11:09 FILE SPEC: K:\CAD\210\dwgs_IS\Sketch\A4PA-0-SK-0-00-29.dgn



Wiley's Well Road Screening Gate

The Genesis Plant Access Road "Wiley's Well Road" will provide (private) paved access to the Genesis Power Plant. The road's entrance gate shall be located approximately 500' N/W of the State maintained Public Rest Area on the North side of Interstate 10. The entrance will be used primarily as a Screening Gate and shall be provisioned with Fixed and PTZ Cameras, Intercom and Proximity Readers. The entrance gate shall be designed to allow manual intervention using Security Control Software running on a Server or Workstation dedicated to the Security Network. A fiber optic communications link shall provide a data transport that interconnects the security devices to the Genesis Security Network. The data communications provided over this link will allow plant personnel to view, monitor and record the entrance area activity. It shall also allow remote interaction with all outside plant visitors and provide remote gate control to the Control Room Operators and/or receptionist.

- Security Contractor to design and install security-based/required power and lighting requirements for the Screening Gate

NETWORK Interface Cables

- FIBER OPTIC CABLE – Field Connected Nodes (Physical Media as Noted)
- FIBER OPTIC PATCH CABLE - (Physical Media as Noted)
- CAT6 - Ethernet - (Physical Media as Noted)
- Serial Cable (Serial RS-485 1-Pair Belden # 3105A)

NOTES:

1). Vehicle Sensor Type - Ground Loop
2). Lighting Requirements TBD by Security Contractor (Entire Entrance / Gate area)
3). Vandal proofing of Network Enclosures required - (Bullet Proof)

Security Device Wiring TBD by Security Contractor

NOT TO SCALE

POWER 120v 480v / 12Kva (as noted) | POWER POLE - | BOLLARD - | AREA LIGHTING POLE - | INTERCOM (IC) - | FIXED CAM (FC) - | PROXIMITY READER (PR) - | PTZ CAM (PTZ) -

REV	DATE	REVISION DESCRIPTION	BY	CHK	APPV	REFERENCE DWG NUMBER	REFERENCE DRAWINGS
0	01/29/12	ISSUED FOR REVIEW			SC		

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CONTRACT A4PA | DRAWN BY G.MACK
SCANNED BY G.MACK
CHECKED BY MICHAEL J. WESSERSCHMITT
APPROVED W.D.BECKHAM APP DATE 01/29/2012
DESIGN ENGINEER B.CONCEPCION APP DATE 01/29/2012
PLANT A.PINTO APP DATE 01/29/2012
CLIENT APP DATE

Genesis Solar Energy Project

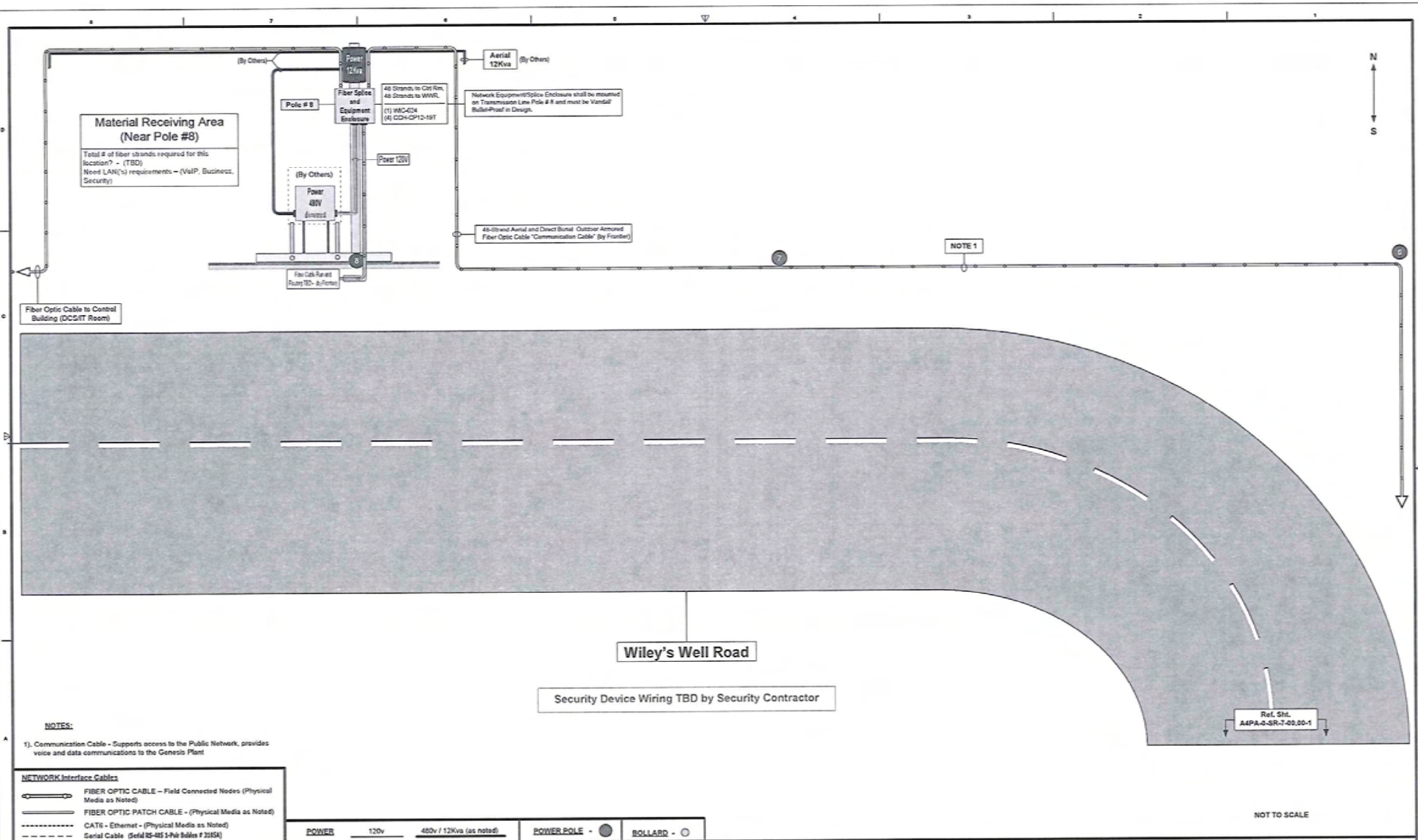
Riverside County, California

FIBER OPTIC CABLE REQUIREMENTS
WILEYS WELL ACCESS ROAD ENTRANCE SYSTEM – POLE # 2
CONTROL SYSTEM

SCALE NONE | DRAWING NUMBER PRELIMINARY | REV 0

CAD FILE NAME A4PA0SR7000002.DWG

PLOT DATE:



NOTES:

1). Communication Cable - Supports access to the Public Network, provides voice and data communications to the Genesis Plant

NETWORK Interface Cables

- FIBER OPTIC CABLE – Field Connected Nodes (Physical Media as Noted)
- FIBER OPTIC PATCH CABLE - (Physical Media as Noted)
- CAT6 - Ethernet - (Physical Media as Noted)
- Serial Cable (Serial RS-485 3-Pair Belden # 3105A)

POWER 120v 480v / 12Kva (as noted) | POWER POLE - | BOLLARD -

REV	DATE	REVISION DESCRIPTION	BY	CHK	APPV	REFERENCE DWG NUMBER	REFERENCE DRAWINGS
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CONTRACT	A4PA
DRAWN BY	C.MACK
DESIGNED BY	C.MACK
CHECKED BY	MICHAEL J. MESSERSCHMITT
SUPERVISOR	W.D.BECKHAM 01/26/2012
LEAD ENGINEER	B.CONCEPCION 01/26/2012
PLANNER	A.PINTO 01/26/2012
CLIENT	

Genesis Solar Energy Project

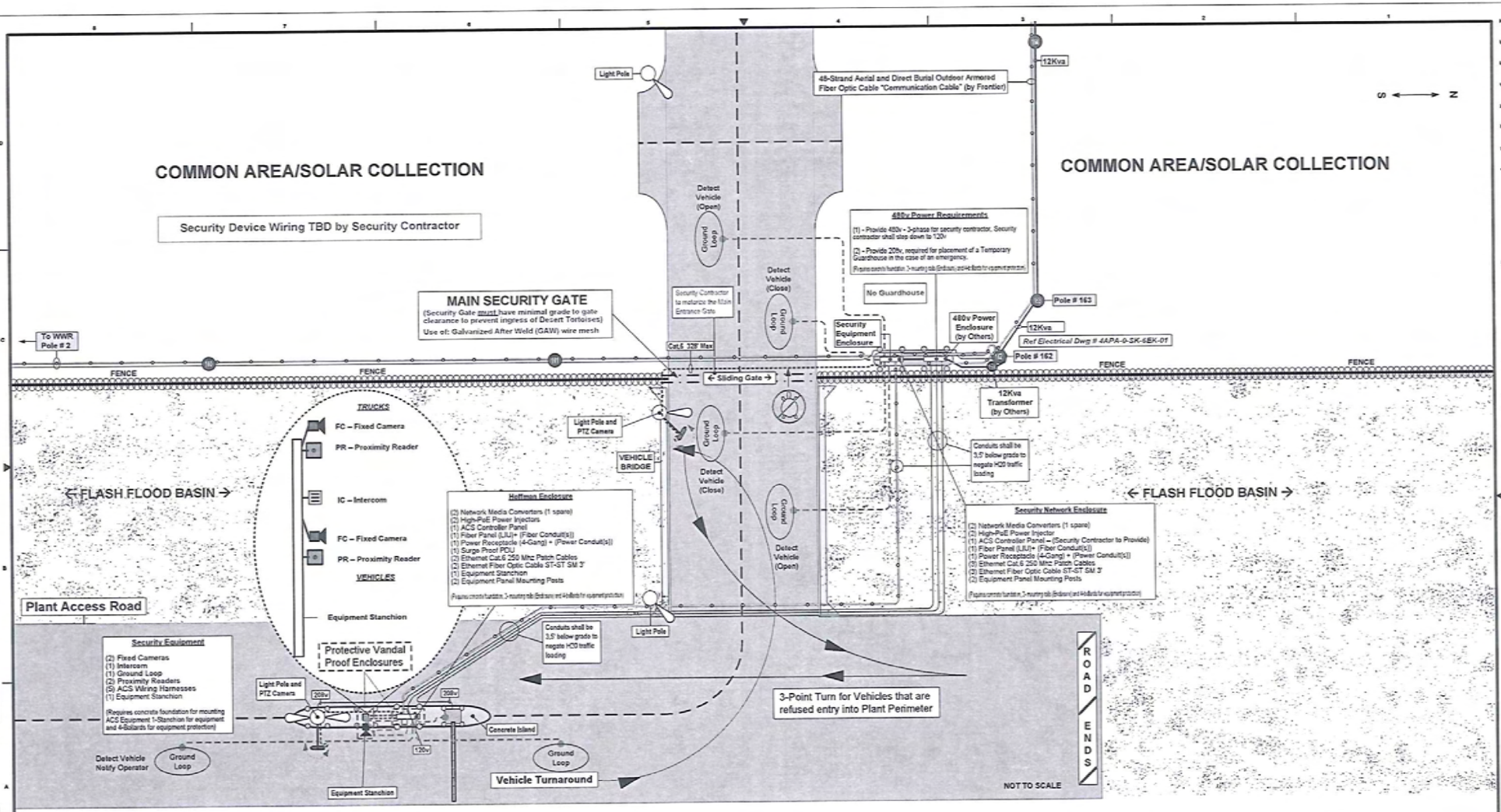
Riverside County, California

FIBER OPTIC CABLE REQUIREMENTS
MAT. RECEIVING FIBER EQUIP/SPLICE CABINET - POLE # 8
CONTROL SYSTEM

SCALE: NONE | DRAWING NAME: PRELIMINARY | REV 0

CAD FILE NAME: A4PA0SR7000002.DWG

PLOT DATE:



NETWORK Interface Cables

- FIBER OPTIC CABLE – Field Connected Nodes (Physical Media as Noted)
- FIBER OPTIC PATCH CABLE - (Physical Media as Noted)
- CAT6 - Ethernet - (Physical Media as Noted)
- Serial Cable (Serial RS-485 1-Pair Belden # 3105A)

NOTES:

1). Vehicle Sensor Type - Ground Loop
2). Lighting Requirements TBD by Security Contractor (Entire Entrance / Gate area)
3). Vandal proofing of Network Enclosures required - (Bullet Proof)
4). Main Gate must be designed to prevent Tortoise Ingress. – (into plant boundaries)
4). All Fire Alarm panels must be integrated to the DCS by way of a serial hardwired interface (by Others) and an Ethernet broadband interface to provide a robust Alarm signaling capability.
5). Security Contractor to motorize the Main Entrance Gate.

NOT TO SCALE

POWER 120v 480v / 12Kva (as noted) | POWER POLE - | BOLLARD - | AREA LIGHTING POLE - | INTERCOM (IC) - | FIXED CAM (FC) - | PROXIMITY READER (PR) - | PTZ CAM (PTZ) -

REV	DATE	REVISION DESCRIPTION	BY	CHK	APPV	REFERENCE DWG NUMBER	REFERENCE DRAWINGS
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CEO | PROFESSIONAL ENGINEER

FLUOR.

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CONTROLLED BY	A.APA	CHECKED BY	G.MACK
DESIGNED BY	G.MACK		
CHECKED BY	MICHAEL J. WESSERSCHMITT		
SUPERVISOR	W.D.BECKHAM	APP DATE	01/29/2013
LEAD ENGINEER	B.CONCEPCION	APP DATE	01/29/2013
FLUOR	A.PINTO	APP DATE	01/29/2013
CLIENT		APP DATE	

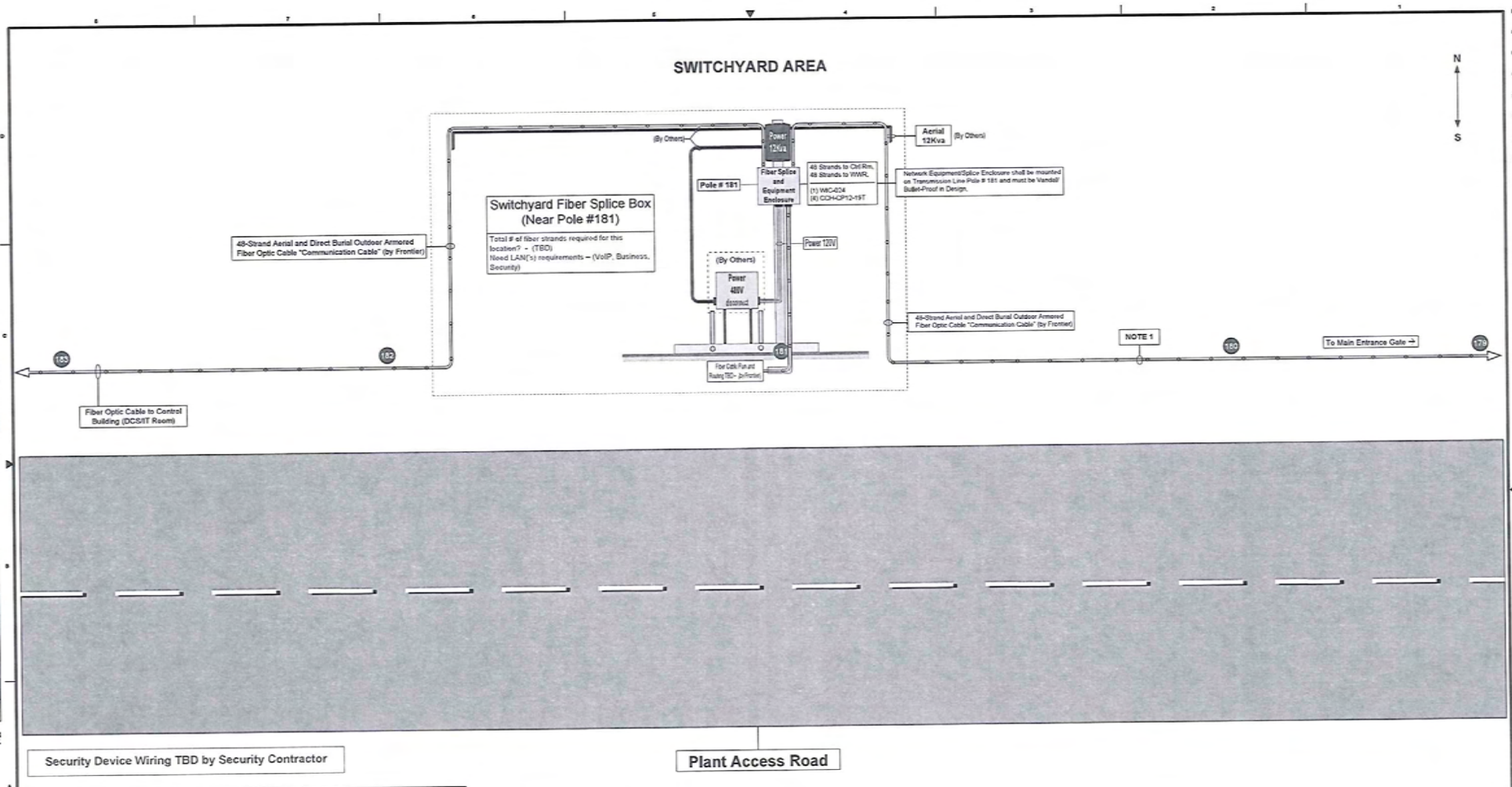
Genesis Solar Energy Project
Riverside County, California

FIBER OPTIC CABLE REQUIREMENTS
MAIN GATE PLANT ENTRANCE - CCTV AND ACS - POLE # 162
CONTROL SYSTEM

SCALE: NONE | DRAWING NUMBER: PRELIMINARY | REV 0

CAD FILE NAME: A4PA0SR7000002.DWG

PLOT DATE:



POWER 120v 480v / 12Kva (as noted) | POWER POLE - ● | BOLLARD - ○

NETWORK Interface Cables
- FIBER OPTIC CABLE – Field Connected Nodes (Physical Media as Noted)
- FIBER OPTIC PATCH CABLE - (Physical Media as Noted)
- CAT6 - Ethernet - (Physical Media as Noted)
- Serial Cable (Serial RS-485 1-Pair Belden # 3105A)

NOTES:
1). Communication Cable - (Supports access to the Public Network, provides voice and data communications to the Genesis Plant)

NOT TO SCALE

REV	DATE	REVISION DESCRIPTION	BY	CHK	APPV	REFERENCE DWG NUMBER	REFERENCE DRAWINGS
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DESIGNED BY G.MACK	
CHECKED BY MICHAEL J. MESSERSCHMITT	
SUPERVISOR W.D.BECKHAM	APP DATE 01/23/2012
LEAD CONSTRUCTOR B.CONCEPCION	APP DATE 01/23/2012
FLUOR A.PINTO	APP DATE 01/23/2012
CLIENT	APP DATE

Genesis Solar Energy Project
Riverside County, California

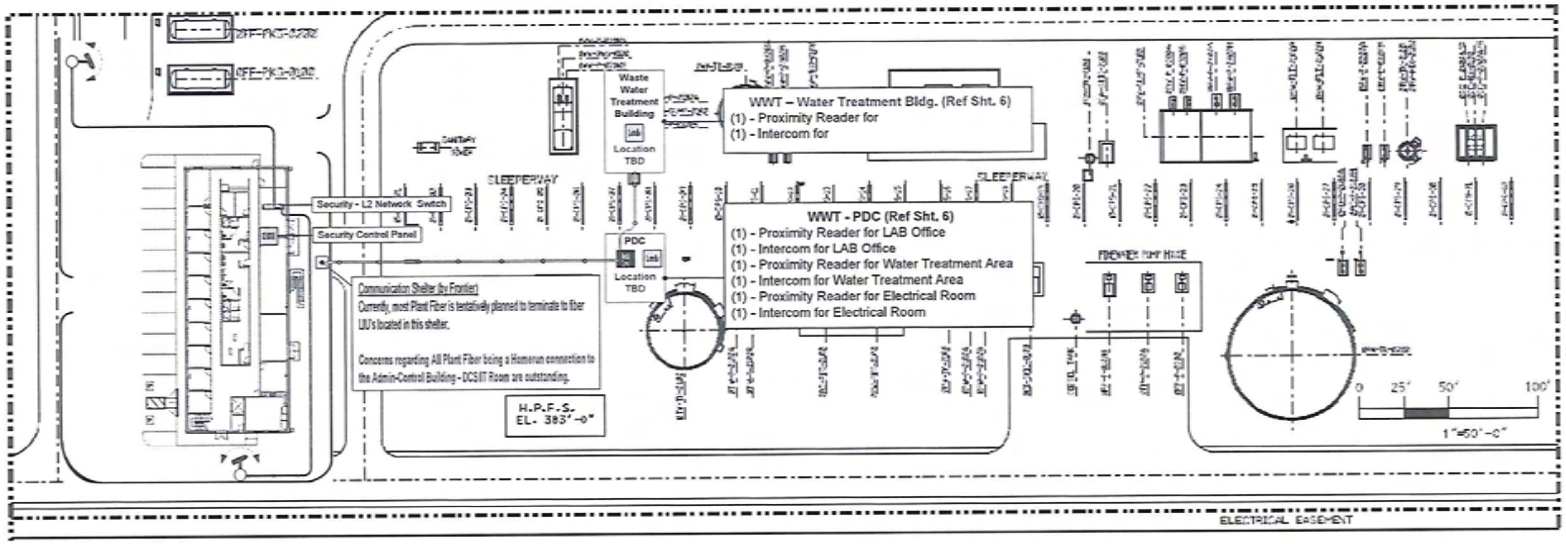
SECURITY NETWORK REQUIREMENTS
SWITCHYARD FIBER EQUIP/SPLICE CABINET - POLE # 181
CONTROL SYSTEM

SCALE NONE | DRAWING NUMBER PRELIMINARY | REV 0

CAD FILE NAME A4PA0SR7000002.DWG

PLOT DATE:

Final Design for Common Area may result in additional security scope - TBD



Security Device Wiring TBD by Security Contractor

NOTES:

1). Camera shown for placement purposes only and does not represent the final model selection or design configuration.

NETWORK Interface Cables

- FIBER OPTIC CABLE – Field Connected Nodes (Physical Media as Noted)
- FIBER OPTIC PATCH CABLE - (Physical Media as Noted)
- CAT6 - Ethernet - (Physical Media as Noted)
- Serial Cable (Serial/RS-485 1-Pair Belden # 3105A)

ROLLARD - AREA LIGHTING POLE - PTZ CAM (PTZ) - Security Control Panel Requires 110 VAC -

NOT TO SCALE

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DESIGNED BY G.MACK	
CHECKED BY MICHAEL J. MESSERSCHMITT	
SUPERVISOR W.D.BECKHAM	APP DATE 01/20/2012
LEAD ENGINEER B.CONCEPCION	APP DATE 01/20/2012
PLANNER A.PINTO	APP DATE 01/20/2012
CLIENT	APP DATE

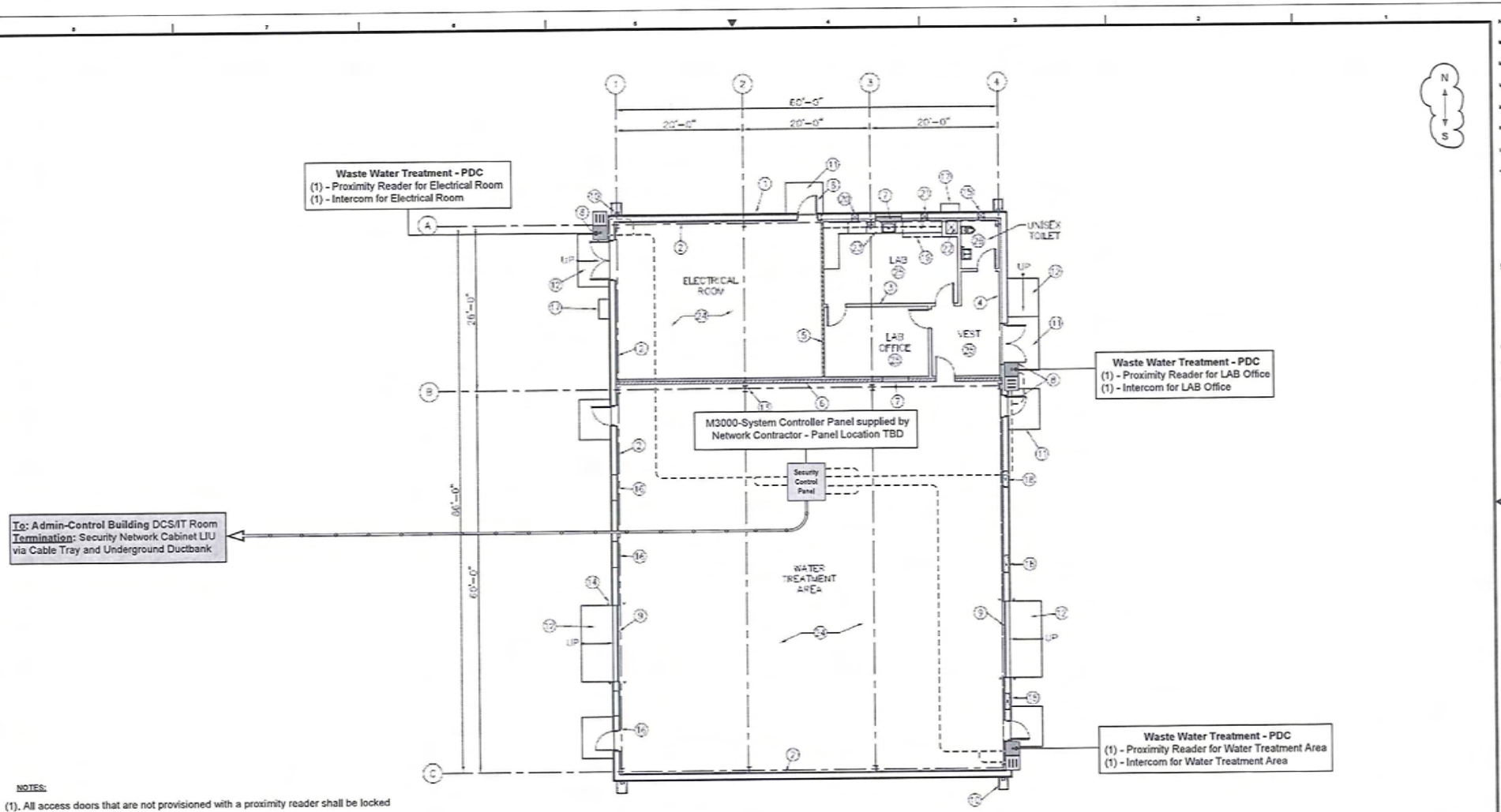
Genesis Solar Energy Project
Riverside County, California

FIBER OPTIC CABLE REQUIREMENTS
CONTROL ROOM - SURVEILLANCE / ACCESS CONTROL SYSTEM
CONTROL SYSTEM

SCALE NONE — DRAWING NAME PRELIMINARY — REV 0

CAD FILE NAME A4PADSR7000002.DWG

PLOT DATE:



NOTES:

(1). All access doors that are not provisioned with a proximity reader shall be locked and require keyed access.

Security Device Wiring TBD by Security Contractor

NOT TO SCALE

NETWORK Interface Cables

- FIBER OPTIC CABLE – Field Connected Nodes (Physical Media as Noted)
- FIBER OPTIC PATCH CABLE - (Physical Media as Noted)
- CAT6 - Ethernet - (Physical Media as Noted)
- Serial Cable (Serial RS-485 1-Pair Belden # 3105A)

INTERCOM (IC) - | PROXIMITY READER (PR) - | Security Control Panel Requires 110 VAC - Unb

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DESIGNED BY G.MACK	
CHECKED BY MICHAEL J. MESSERSCHMITT	
SUPERVISOR W.D.BECKHAM	APP DATE 01/26/2012
LEAD ENGINEER B.CONCEPCION	APP DATE 01/26/2012
FLUOR A.PINTO	APP DATE 01/26/2012
CLIENT	APP DATE

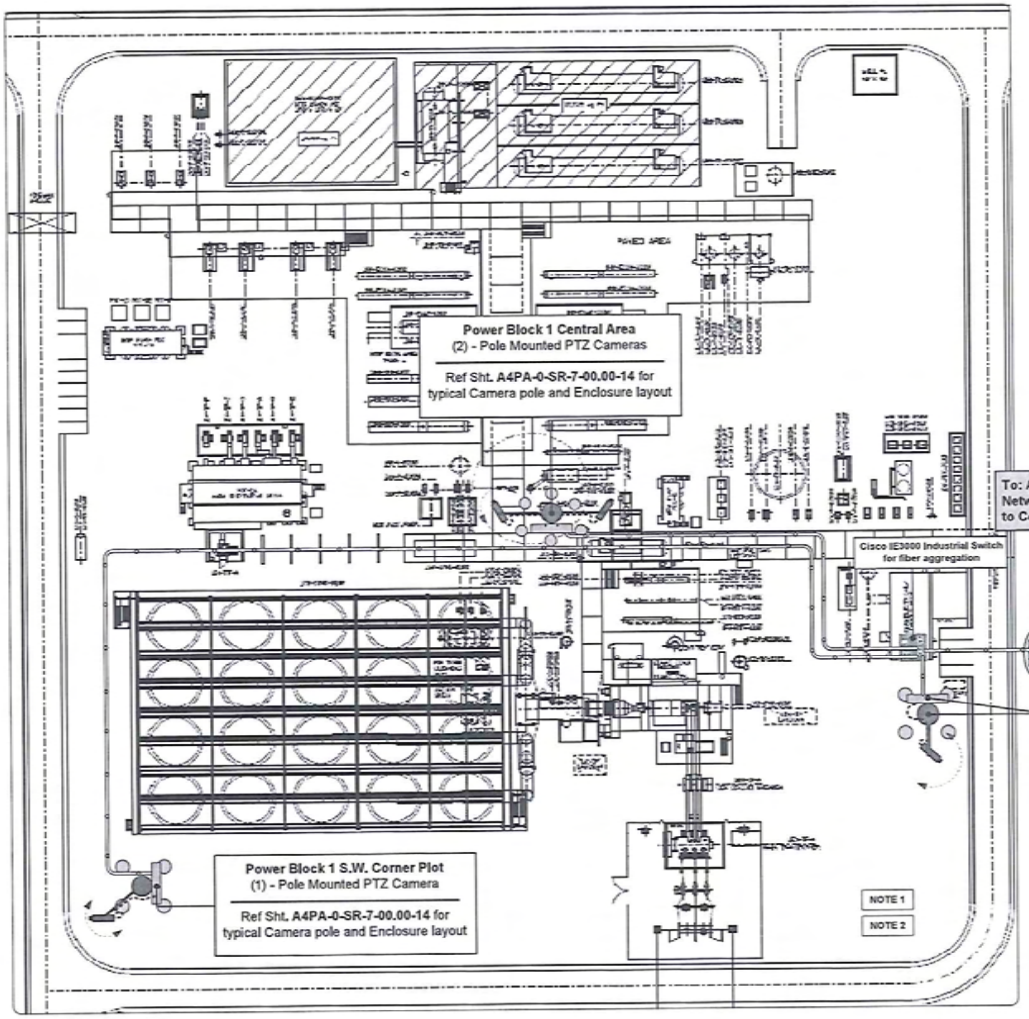
Genesis Solar Energy Project
Riverside County, California

FIBER OPTIC CABLE REQUIREMENTS
WASTE WATER TREATMENT PDC - ACCESS CONTROL SYSTEM
CONTROL SYSTEM

SCALE NONE | DRAWING NAME PRELIMINARY | REV 0

CAD FILE NAME A4PA0SR7000002.DWG

PLOT DATE:



Camera Specifications - (AXIS Q6032-C)

http://www.axis.com/corporate/press/press_material.htm?key=q6032c

NOTES:

(1). Power Block 1 and Power Block 2 shall be provisioned using PTZ Dome Network Cameras with integrated active cooling and reliable video surveillance designed for desert environments. The high-speed pan/tilt/zoom camera shall support powerful zoom and HDTV resolution of 1080p, operate in heat up to 167 °F with the ability to withstand sandstorms and conform to military standard, MIL-STD-810G. The Cameras shall support advanced climate control system and handle rapid temperature changes to eliminate condensation. The IP66 and NEMA 4X-rated camera is dust and waterproof, supports day and night functionality, wide dynamic range, H.264, automatic guard tour, alarm management and auto-tracking.

(2). Ref. Sht. A4PA-0-SR-7-00.00-14 for typical Camera Pole and Enclosure layout

NETWORK Interface Cables

- FIBER OPTIC CABLE – Field Connected Nodes (Physical Media as Noted)
- FIBER OPTIC PATCH CABLE - (Physical Media as Noted)
- CAT6 - Ethernet - (Physical Media as Noted)
- Serial Cable (Serial RS-485 1-Pair Belden # 3105A)

PTZ CAM (PTZ) - BOLLARD - SECURITY CAMERA POLE -

Security Device Wiring TBD by Security Contractor

NOT TO SCALE

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DRAWING BY	G.MACK
DESIGNED BY	G.MACK
CHECKED BY	MICHAEL J. WESSERSCHMITT
SUPERVISOR	W.D.BECKHAM
LEAD ENGINEER	B.CONCEPCION
FLUOR	A.PINTO
CLIENT	

Genesis Solar Energy Project

Riverside County, California

FIBER OPTIC CABLE REQUIREMENTS
POWER BLOCK UNIT # 1 - CCTV SYSTEM
CONTROL SYSTEM

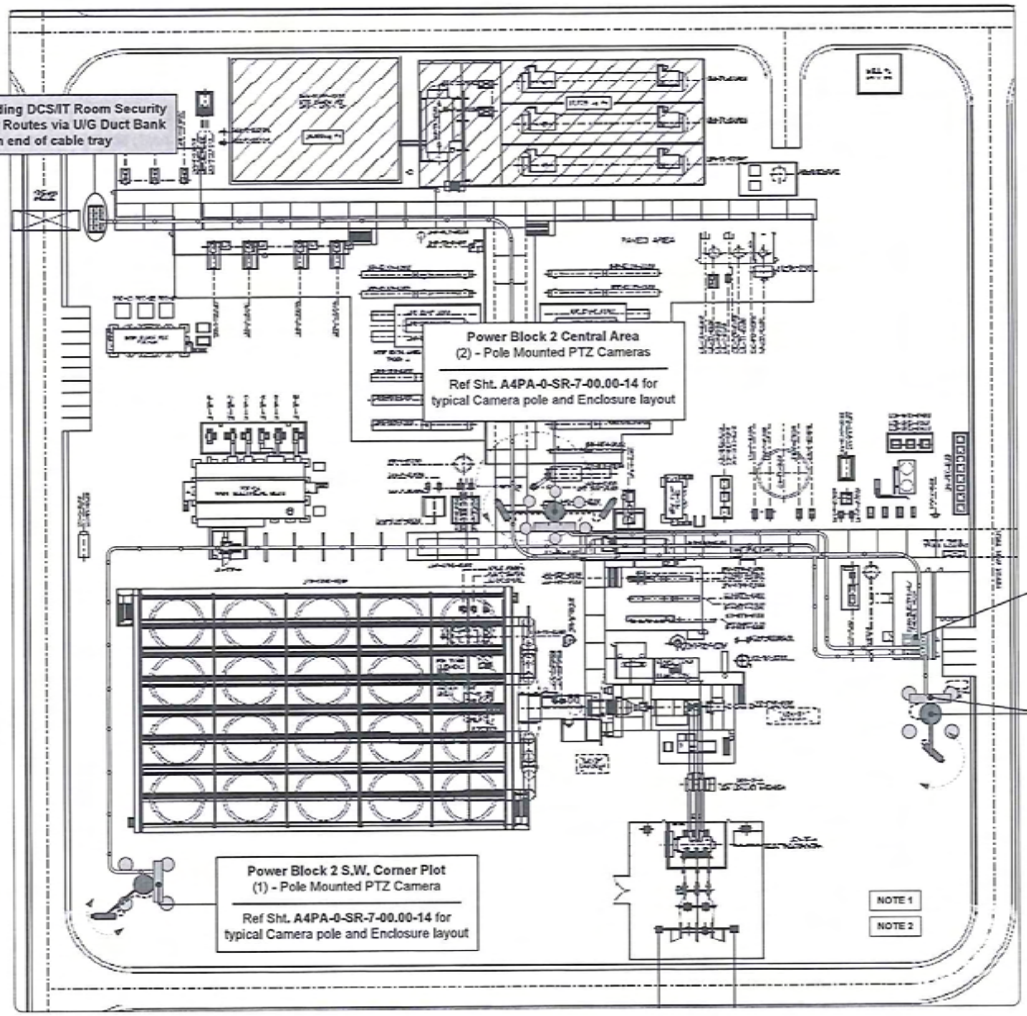
SCALE: NONE

PRELIMINARY

REV: 0

CAD FILE NAME: A4PA0SR7000002.DWG

PLOT DATE:



Camera Specifications - (AXIS Q6032-C)

http://www.axis.com/corporate/press/press_material.htm?key=q6032c

Security Device Wiring TBD by Security Contractor

NOT TO SCALE

NOTES:

(1). Power Block 1 and Power Block 2 shall be provisioned using PTZ Dome Network Cameras with integrated active cooling and reliable video surveillance designed for desert environments. The high-speed pan/tilt/zoom camera shall support powerful zoom and HDTV resolution of 1080p, operate in heat up to 167 °F with the ability to withstand sandstorms and conform to military standard, MIL-STD-810G. The Cameras shall support advanced climate control system and handle rapid temperature changes to eliminate condensation. The IP66 and NEMA 4X-rated camera is dust and waterproof, supports day and night functionality, wide dynamic range, H.264, automatic guard tour, alarm management and auto-tracking.

(2). Ref. Sht. A4PA-0-SR-7-00.00-14 for typical Camera Pole and Enclosure layout

NETWORK Interface Cables

- FIBER OPTIC CABLE – Field Connected Nodes (Physical Media as Noted)
- FIBER OPTIC PATCH CABLE - (Physical Media as Noted)
- CAT6 - Ethernet - (Physical Media as Noted)
- Serial Cable (Serial RS-485 1-Pair Belden # 3105A)

PTZ CAM (PTZ) - BOLLARD - SECURITY CAMERA POLE -

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DESIGNED BY G.MACK	
CHECKED BY MICHAEL J. WESSERSCHMITT	
SUPERVISOR W.D.BECKHAM	APP DATE 01/26/2012
LEAD DRAFTER B.CONCEPCION	APP DATE 01/26/2012
FLUOR A.PINTO	APP DATE 01/26/2012
CLIENT	APP DATE

Genesis Solar Energy Project

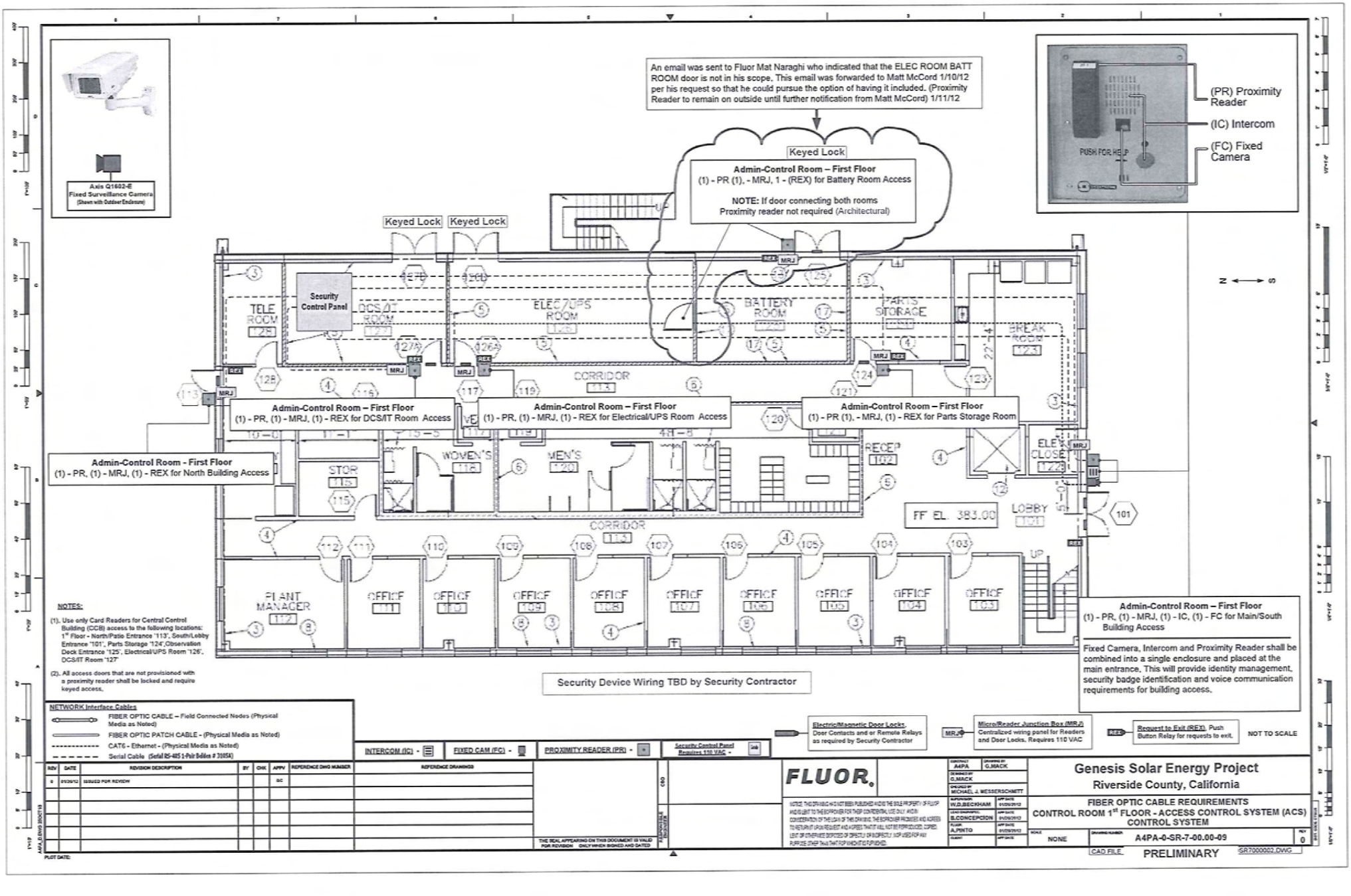
Riverside County, California

FIBER OPTIC CABLE REQUIREMENTS
POWER BLOCK UNIT # 2 - CCTV SYSTEM
CONTROL SYSTEM

SCALE NONE | DRAWING NUMBER PRELIMINARY | REV 0

CAD FILE NAME A4PA0SR7000002.DWG

PLOT DATE:



Axis Q1602-E
Fixed Surveillance Camera
(Shown with Outdoor Enclosure)
An email was sent to Fluor Mat Naraghi who indicated that the ELEC ROOM BATT ROOM door is not in his scope. This email was forwarded to Matt McCord 1/10/12 per his request so that he could pursue the option of having it included. (Proximity Reader to remain on outside until further notification from Matt McCord) 1/11/12
Keyed Lock
Admin-Control Room – First Floor
(1) - PR (1), - MRJ, 1 - (REX) for Battery Room Access
NOTE: If door connecting both rooms Proximity reader not required (Architectural)
(PR) Proximity Reader
(IC) Intercom
(FC) Fixed Camera
PUSH FOR HELP
Keyed Lock
Keyed Lock
Security Control Panel
TELE ROOM 128
DCS/IT ROOM 127
ELEC/UPS ROOM 126
BATTERY ROOM 125
PARTS STORAGE 124
BREAK ROOM 123
CORRIDOR 113
Admin-Control Room – First Floor
(1) - PR, (1) - MRJ, (1) - REX for DCS/IT Room Access
Admin-Control Room – First Floor
(1) - PR, (1) - MRJ, (1) - REX for Electrical/UPS Room Access
Admin-Control Room – First Floor
(1) - PR (1), - MRJ, (1) - REX for Parts Storage Room
Admin-Control Room - First Floor
(1) - PR, (1) - MRJ, (1) - REX for North Building Access
STOR 115
WOMEN'S 118
MEN'S 120
RECEP 102
ELEV CLOSET 122
FF EL. 383.00
LOBBY 101
CORRIDOR 113
PLANT MANAGER 112
OFFICE 111
OFFICE 110
OFFICE 109
OFFICE 108
OFFICE 107
OFFICE 106
OFFICE 105
OFFICE 104
OFFICE 103
Admin-Control Room – First Floor
(1) - PR, (1) - MRJ, (1) - IC, (1) - FC for Main/South Building Access
Fixed Camera, Intercom and Proximity Reader shall be combined into a single enclosure and placed at the main entrance. This will provide identity management, security badge identification and voice communication requirements for building access.
Security Device Wiring TBD by Security Contractor
NOTES:
(1). Use only Card Readers for Central Control Building (CCB) access to the following locations: 1st Floor - North/Patio Entrance '113', South/Lobby Entrance '101', Parts Storage '124',Observation Deck Entrance '125', Electrical/UPS Room '126', DCS/IT Room '127'
(2). All access doors that are not provisioned with a proximity reader shall be locked and require keyed access.
NETWORK Interface Cables
FIBER OPTIC CABLE – Field Connected Nodes (Physical Media as Noted)
FIBER OPTIC PATCH CABLE - (Physical Media as Noted)
CAT6 - Ethernet - (Physical Media as Noted)
Serial Cable (Serial RS-485 1-Pair Belden # 3105A)
INTERCOM (IC)
FIXED CAM (FC)
PROXIMITY READER (PR)
Security Control Panel Requires 110 VAC
Electric/Magnetic Door Locks. Door Contacts and or Remote Relays as required by Security Contractor
MRJ
Micro/Reader Junction Box (MRJ) Centralized wiring panel for Readers and Door Locks. Requires 110 VAC
REX
Request to Exit (REX). Push Button Relay for requests to exit.
NOT TO SCALE
REV DATE REVISION DESCRIPTION BY CHK APPV REFERENCE DWG NUMBER REFERENCE DRAWINGS
0 01/26/12 ISSUED FOR REVIEW BC
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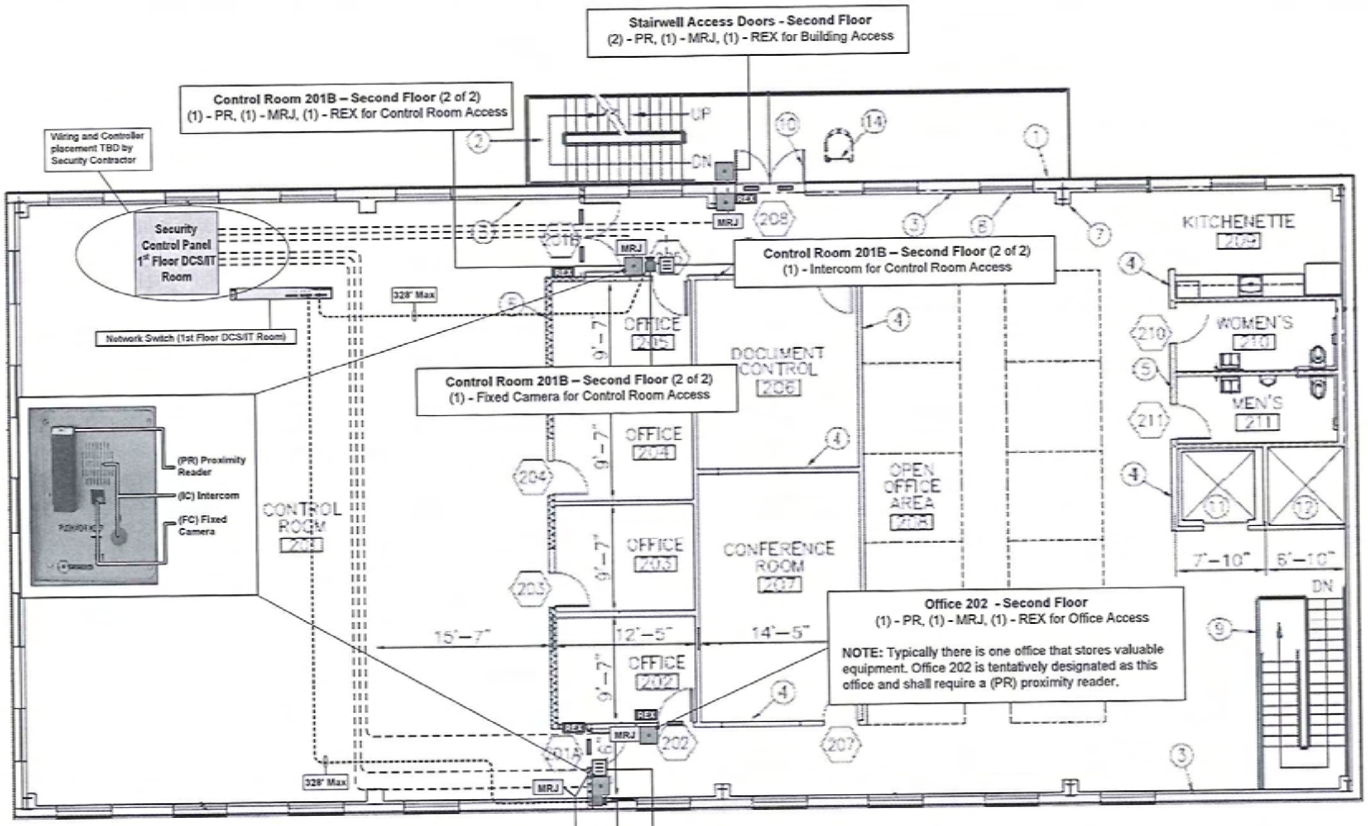
FLUOR
CONTRACT A4PA
DRAWING BY G.MACK
DESIGNED BY G.MACK
CHECKED BY MICHAEL J. WESSERSCHMITT
SUPERVISOR W.D.BECKHAM
LEAD ENGINEER B.CONCEPCION
FLOOR A.PINTO
Genesis Solar Energy Project
Riverside County, California
FIBER OPTIC CABLE REQUIREMENTS
CONTROL ROOM 1st FLOOR - ACCESS CONTROL SYSTEM (ACS) CONTROL SYSTEM
SCALE NONE
DRAWING NUMBER A4PA-0-SR-7-00.00-09
REV 0
CAD FILE
PRELIMINARY
SR7000002.DWG
PLOT DATE:



NOTES:

(1). Use only Card Readers for Central Control Building (CCB) access to the following locations: Control Room Entrance - 201B and 201A, Stairwell Access Door - 208, Office - 202

(2). All Doors that are not provisioned with a Proximity Reader shall be locked and require keyed access

NOT TO SCALE

Security Device Wiring TBD by Security Contractor

NETWORK Interface Cables

- FIBER OPTIC CABLE – Field Connected Nodes (Physical Media as Noted)
- FIBER OPTIC PATCH CABLE - (Physical Media as Noted)
- CAT6 - Ethernet - (Physical Media as Noted)
- Serial Cable (Serial RS-485 1-Pair Belden # 3105A)

INTERCOM (IC) - | FIXED CAM (FC) - | PROXIMITY READER (PR) - | Security Control Panel Requires 110 VAC - | Electric/Magnetic Door Locks, Door Contacts and or Remote Relays as required by Security Contractor | MRJ Micro/Reader Junction Box (MRJ) Centralized wiring panel for Readers and Door Locks, Requires 110 VAC | REX Request to Exit (REX), Push Button Relay for requests to exit.

REV	DATE	REVISION DESCRIPTION	BY	CHK	APPV	REFERENCE DWG NUMBER	REFERENCE DRAWINGS
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DESIGNED BY G.MACK
CHECKED BY MICHAEL J. MESSERSCHMITT
SUPERVISOR W.D.BECKHAM | APP DATE 01/26/2012
LEAD ENGINEER B.CONCEPCION | APP DATE 01/26/2012
FLUOR A.PINTO | APP DATE 01/26/2012
CLIENT | APP DATE

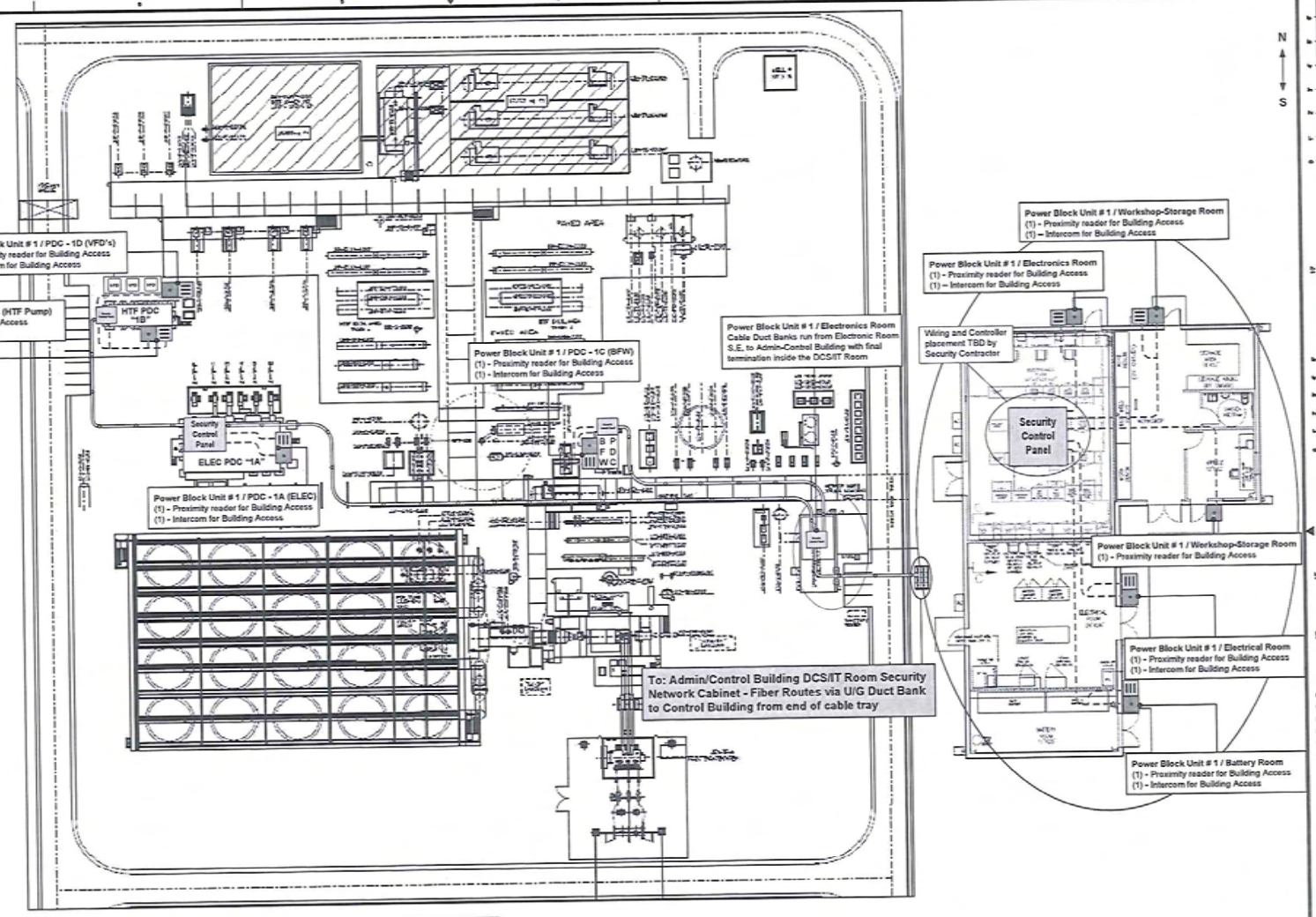
Genesis Solar Energy Project
Riverside County, California

FIBER OPTIC CABLE REQUIREMENTS
CONTROL ROOM 2nd FLOOR - ACCESS CONTROL SYSTEM (ACS)
CONTROL SYSTEM

SCALE NONE | DRAWING NUMBER PRELIMINARY | REV 0

CAD FILE NAME A4PA0SR7000002.DWG

PLOT DATE:



Security Device Wiring TBD by Security Contractor

NOT TO SCALE

NOTES:

(1). Use Proximity Readers and Intercoms for Power Block Access Control

(2). All access doors that are not provisioned with a proximity reader shall be locked and require keyed access.

NETWORK Interface Cables

- FIBER OPTIC CABLE – Field Connected Nodes (Physical Media as Noted)
- FIBER OPTIC PATCH CABLE - (Physical Media as Noted)
- CAT6 - Ethernet - (Physical Media as Noted)
- Serial Cable (Serial RS-485 1-Pair Belden # 3105A)

POWER 120v | 480v / 12Kva (as noted) | INTERCOM (IC) - | PROXIMITY READER (PR) - | Security Control Panel Requires 110 VAC -

REV	DATE	REVISION DESCRIPTION	BY	CHK	APPV	REFERENCE DWG NUMBER	REFERENCE DRAWINGS
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LEAD DISCIPLINE B.CONCEPCION	APP DATE 01/26/2012
FLUOR A.PINTO	APP DATE 01/26/2012
CLIENT	APP DATE

Genesis Solar Energy Project

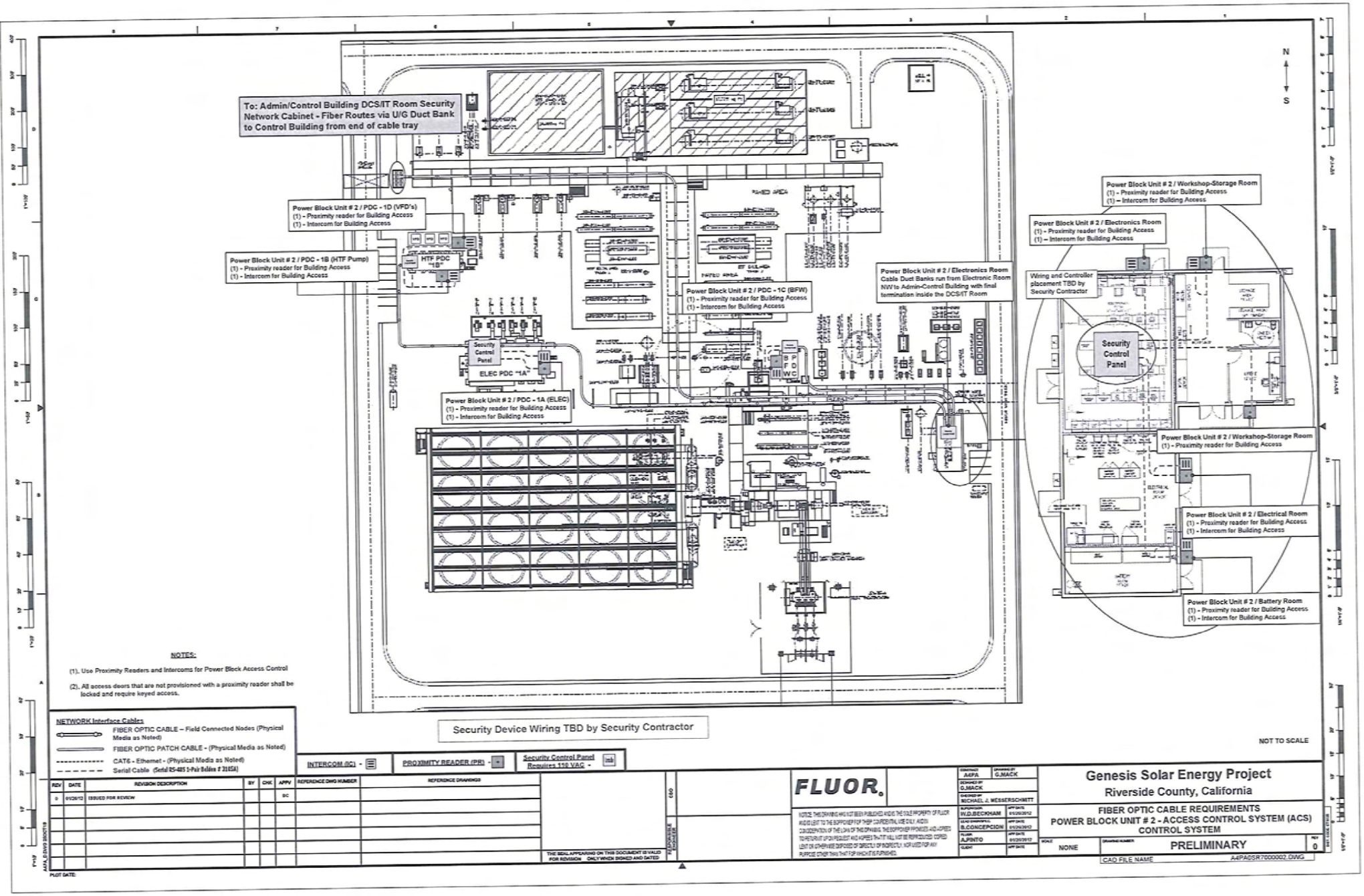
Riverside County, California

FIBER OPTIC CABLE REQUIREMENTS
POWER BLOCK UNIT # 1 - ACCESS CONTROL SYSTEM (ACS) CONTROL SYSTEM

SCALE NONE | DRAWING NUMBER PRELIMINARY | REV 0

CAD FILE NAME A4PA0SR7000002.DWG

PLOT DATE:



NOTES:

(1). Use Proximity Readers and Intercoms for Power Block Access Control

(2). All access doors that are not provisioned with a proximity reader shall be locked and require keyed access.

NETWORK Interface Cables

- FIBER OPTIC CABLE – Field Connected Nodes (Physical Media as Noted)
- FIBER OPTIC PATCH CABLE - (Physical Media as Noted)
- CAT6 - Ethernet - (Physical Media as Noted)
- Serial Cable (Serial RS-485 1-Pair Belden # 3105A)

INTERCOM (IC) - | PROXIMITY READER (PR) - | Security Control Panel Requires 110 VAC -

REV	DATE	REVISION DESCRIPTION	BY	CHK	APPV	REFERENCE DWG NUMBER	REFERENCE DRAWINGS
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LEAD DRAWING PLC B.CONCEPCION	APP DATE 01/26/2012
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Genesis Solar Energy Project

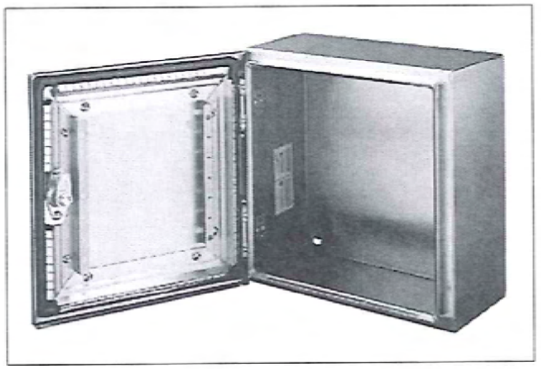
Riverside County, California

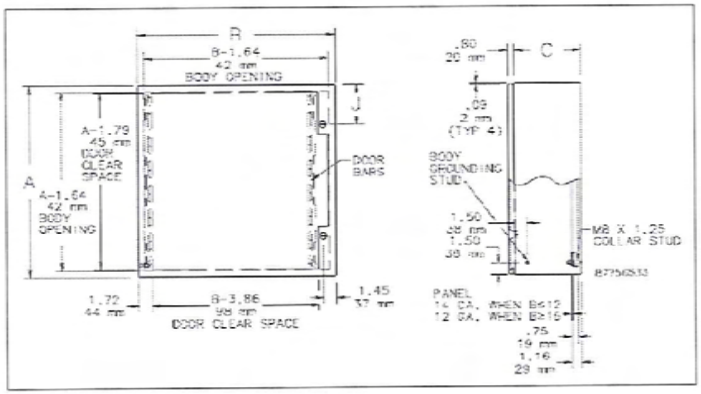
FIBER OPTIC CABLE REQUIREMENTS
POWER BLOCK UNIT # 2 - ACCESS CONTROL SYSTEM (ACS) CONTROL SYSTEM

SCALE NONE | DRAWING NUMBER PRELIMINARY | REV 0

CAD FILE NAME A4PA0SR7000002.DWG

PLOT DATE:





Catalog Number	AxBxC in./mm	Door Gauge	Body Gauge	Panel	Conductive Panel Catalog Number	Panel Size D x E in./mm	Mounting G x H in./mm	Latches Qty.	J in./mm
CSD362412EMCSS	36.00 x 24.00 x 12.00 914 x 610 x 305	14	16	CP3624	CP3624G	34.20 x 22.20 869 x 564	34.50 x 22.50 876 x 572	2	5.00 127

NOTES:

(1). Due to extreme environmental conditions it is imperative that all equipment installed in a field mounted enclosure is fully capable of withstanding temps in excess of 140°.

(2). All outdoor Enclosures shall be provisioned with sun shields

NETWORK Interface Cables

- FIBER OPTIC CABLE – Field Connected Nodes (Physical Media as Noted)
- FIBER OPTIC PATCH CABLE - (Physical Media as Noted)
- CAT6 - Ethernet - (Physical Media as Noted)
- Serial Cable (Serial RS-485 1-Pair Belden # 3105A)

Security Device Wiring TBD by Security Contractor

NOT TO SCALE

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CSD

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DESIGNED BY: G.MACK	
CHECKED BY: MICHAEL J. WESSERSCHMITT	
SUPERVISOR: W.D.BECKHAM	APP DATE: 01/26/2012
LEAD ENGINEER: B.CONCEPCION	APP DATE: 01/26/2012
FLUOR: A.PINTO	APP DATE: 01/26/2012
CLIENT	APP DATE

Genesis Solar Energy Project

Riverside County, California

FIBER OPTIC CABLE REQUIREMENTS
FIELD SURVEILLANCE CAMERA EQUIPMENT CABINETS
CONTROL SYSTEM

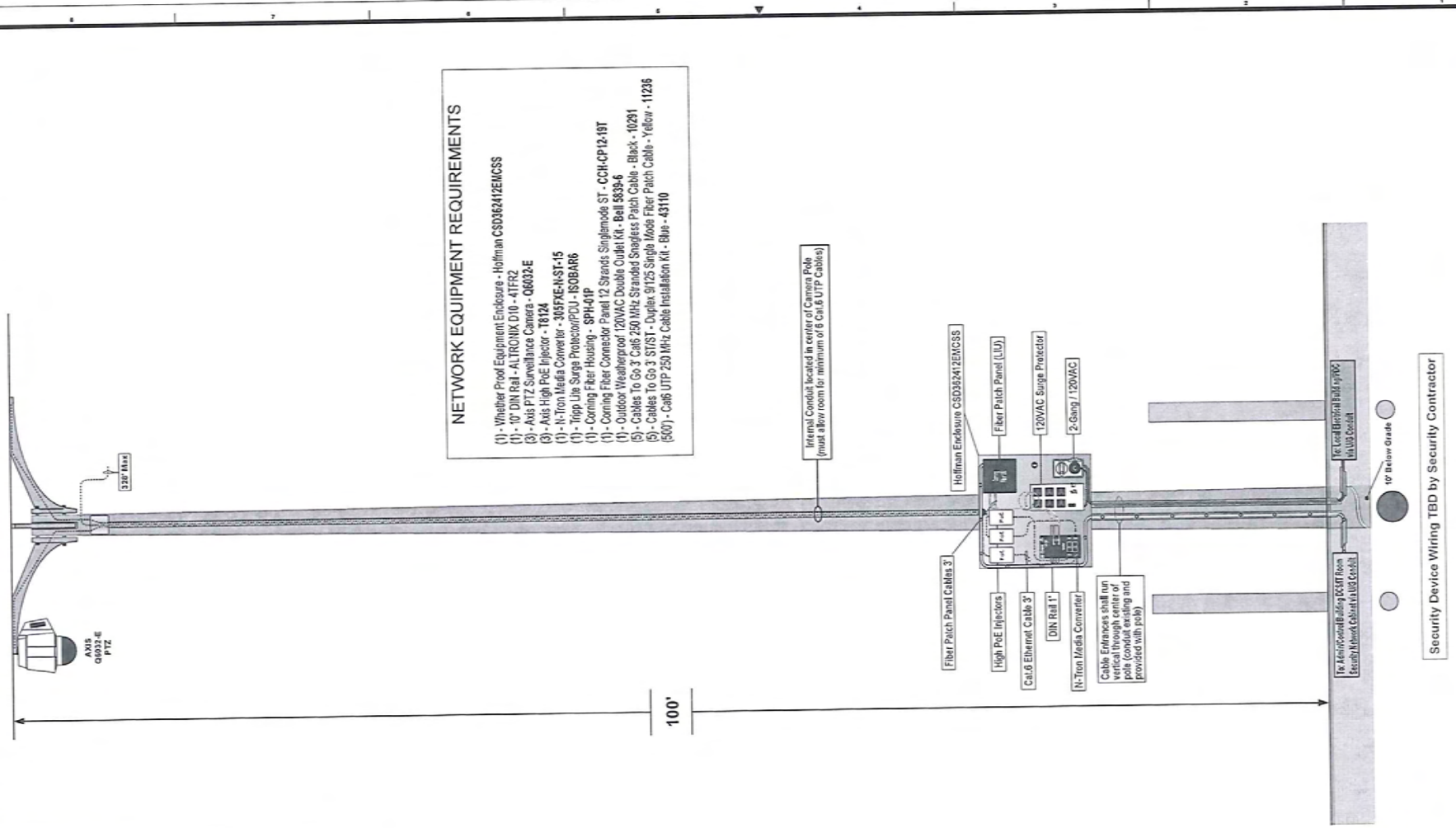
SCALE: NONE

DRAWING NAME: PRELIMINARY

REV: 0

CAD FILE NAME: A4PA0SR7000002.DWG

PLOT DATE:


NETWORK EQUIPMENT REQUIREMENTS
(1) - Whether Proof Equipment Enclosure - Hoffman CSD362412EMCSS
(1) - 10" DIN Rail - ALTRONIX D10 - 4TFR2
(3) - Axis PTZ Surveillance Camera - Q6032-E
(3) - Axis High PoE Injector - T8124
(1) - N-Tron Media Converter - 305FXE-N-ST-15
(1) - Tripp Lite Surge Protector/PDU - ISOBAR6
(1) - Corning Fiber Housing - SPH-01P
(1) - Corning Fiber Connector Panel 12 Strands Singlemode ST - CCH-CP12-19T
(1) - Outdoor Weatherproof 120VAC Double Outlet Kit - Bell 5839-6
(5) - Cables To Go 3' Cat6 250 MHz Stranded Snagless Patch Cable - Black - 10291
(5) - Cables To Go 3' ST/ST - Duplex 9/125 Single Mode Fiber Patch Cable - Yellow - 11236
(500') - Cat6 UTP 250 MHz Cable Installation Kit - Blue - 43110
Internal Conduit located in center of Camera Pole (must allow room for minimum of 6 Cat.6 UTP Cables)
Hoffman Enclosure CSD362412EMCSS
Fiber Patch Panel (LIU)
120VAC Surge Protector
2-Gang / 120VAC
Fiber Patch Panel Cables 3'
High PoE Injectors
Cat.6 Ethernet Cable 3'
DIN Rail 1'
N-Tron Media Converter
Cable Entrances shall run vertical through center of pole (conduit existing and provided with pole)
To Local Electrical Building 1000 via UG Conduit
To Admin/Control Building DCS/IT Room Security Network Cabinet via UG Conduit
10' Below Grade
Security Device Wiring TBD by Security Contractor
AXIS Q6032-E PTZ
320' Max
100'
NETWORK Interface Cables
FIBER OPTIC CABLE – Field Connected Nodes (Physical Media as Noted)
FIBER OPTIC PATCH CABLE - (Physical Media as Noted)
CAT6 - Ethernet - (Physical Media as Noted)
Serial Cable / Twisted Pair - (Serial RS-485 1-Pair Belden # 3105A)
POWER 120v 480v / 12Kva (as noted)
SECURITY CAMERA POLE -
BOLLARD -
NOT TO SCALE
FLUOR
Genesis Solar Energy Project
Riverside County, California
FIBER OPTIC CABLE REQUIREMENTS
TYPICAL CCTV CAMERA MOUNTING POLE
CONTROL SYSTEM
PRELIMINARY
NONE
CAD FILE NAME
A4PA0SR7000002.DWG
REVISION DESCRIPTION
SIGNED FOR APPROVAL
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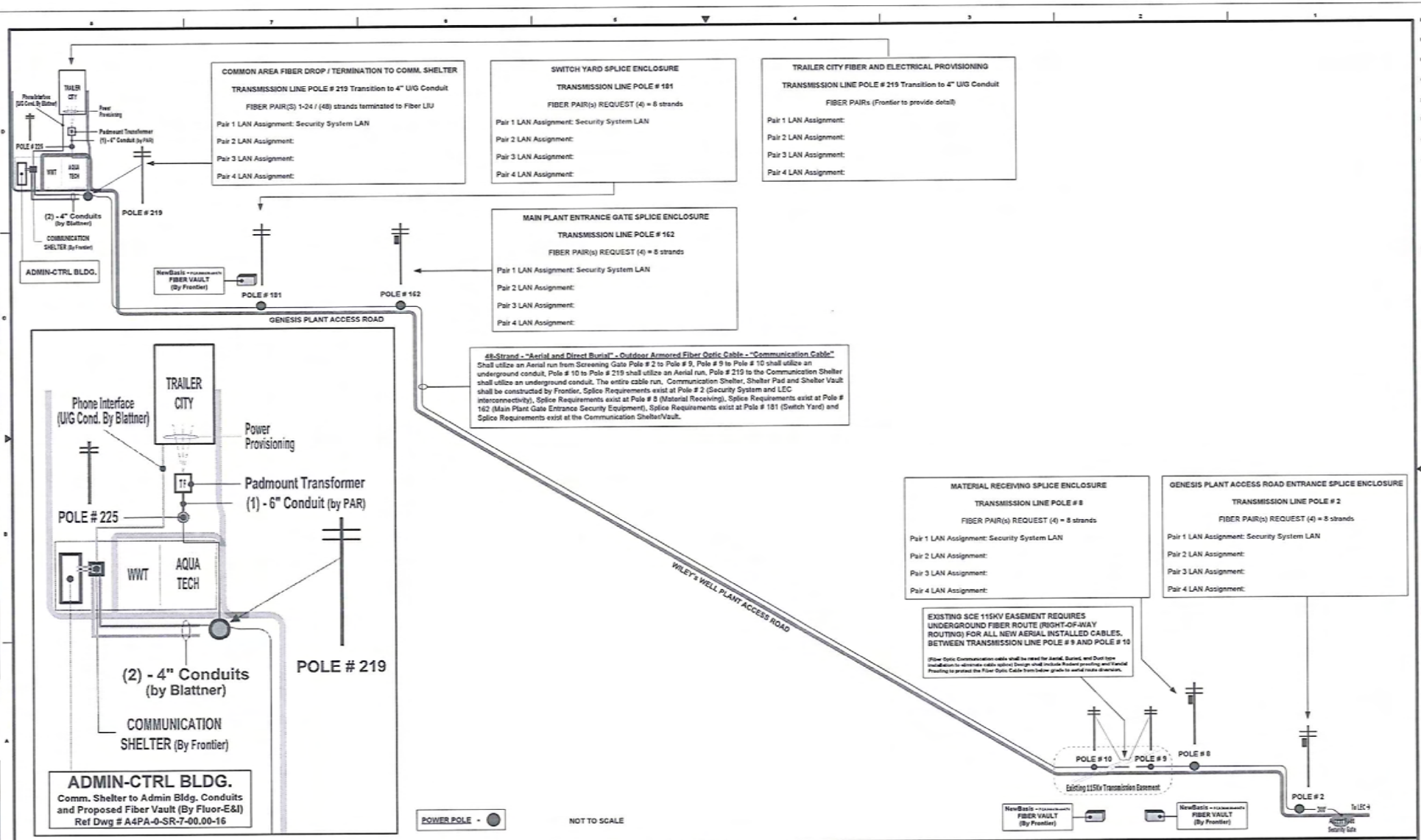
PLOT DATE



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CLIENT DOCUMENT NUMBER

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DESIGNED BY G.MACK		
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LEAD ENGINEER B.CONCEPCION	APP DATE 01/25/2012	
PLANNER A.PINTO	APP DATE 01/25/2012	
CLIENT	APP DATE	

Genesis Solar Energy Project

Riverside County, California

FIBER OPTIC CABLE REQUIREMENTS COMMUNICATION FIBER 24-PAIR - END TO END CONTROL SYSTEM

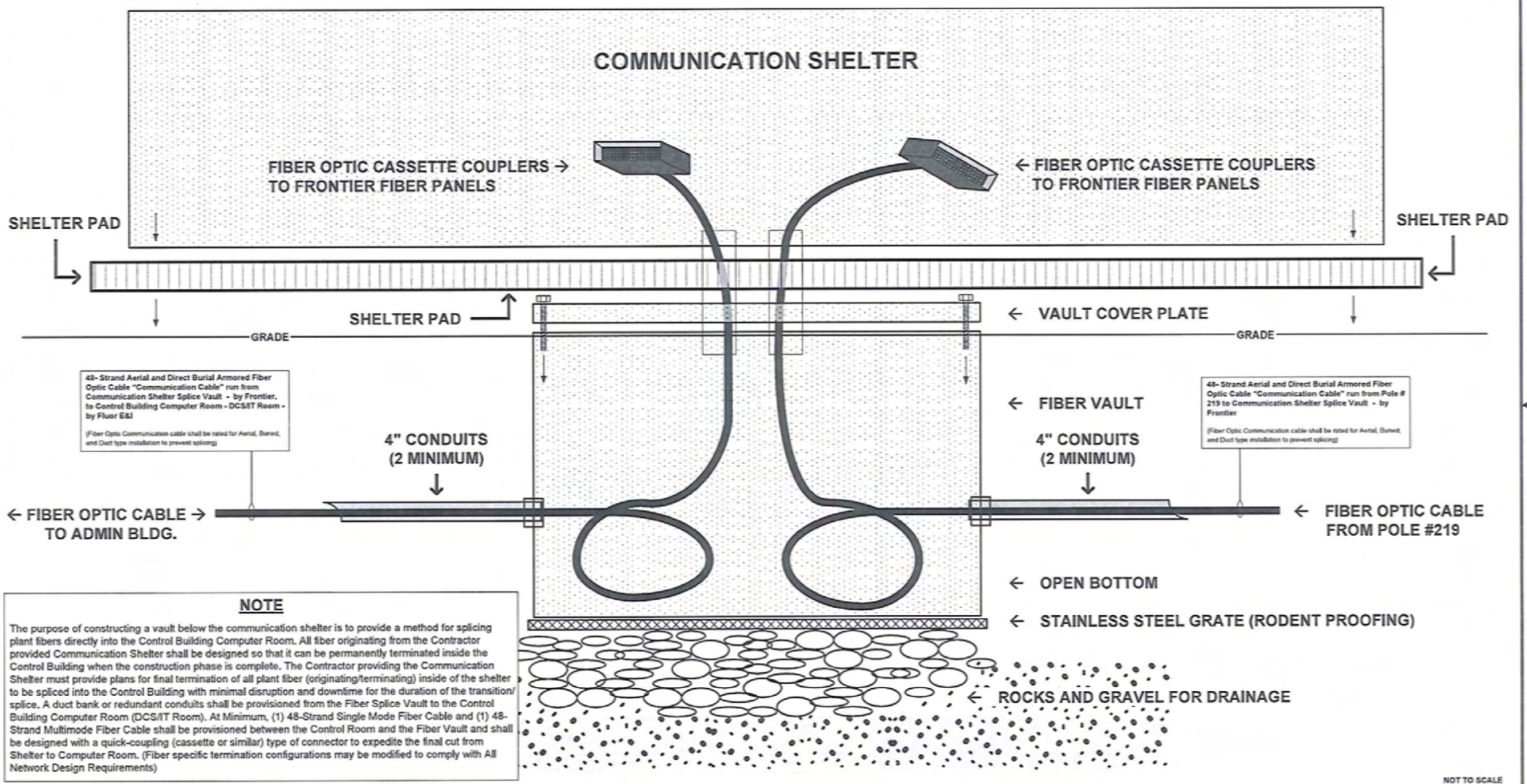
SCALE: NONE

DRAWING NUMBER: PRELIMINARY

REV: 0

CAD FILE NAME: A4PAOSR7000002.DWG

PLOT DATE:



NOTE

The purpose of constructing a vault below the communication shelter is to provide a method for splicing plant fibers directly into the Control Building Computer Room. All fiber originating from the Contractor provided Communication Shelter shall be designed so that it can be permanently terminated inside the Control Building when the construction phase is complete. The Contractor providing the Communication Shelter must provide plans for final termination of all plant fiber (originating/terminating) inside of the shelter to be spliced into the Control Building with minimal disruption and downtime for the duration of the transition/splice. A duct bank or redundant conduits shall be provisioned from the Fiber Splice Vault to the Control Building Computer Room (DCS/IT Room). At Minimum, (1) 48-Strand Single Mode Fiber Cable and (1) 48-Strand Multimode Fiber Cable shall be provisioned between the Control Room and the Fiber Vault and shall be designed with a quick-coupling (cassette or similar) type of connector to expedite the final cut from Shelter to Computer Room. (Fiber specific termination configurations may be modified to comply with All Network Design Requirements)

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DESIGNED BY C.MACK		
CHECKED BY MICHAEL J. MESSERSCHMITT		
SUPERVISOR W.D.BECKHAM	APP DATE 01/26/2012	
LEAD ENGINEER B.CONCEPCION	APP DATE 01/26/2012	
FLUOR A.PINTO	APP DATE 01/26/2012	
CLIENT	APP DATE	

Genesis Solar Energy Project
Riverside County, California

FIBER OPTIC CABLE REQUIREMENTS
COMMUNICATION SHELTER
CONTROL SYSTEM

SCALE NONE | DRAWING NUMBER PRELIMINARY | REV 0

CAD FILE NAME A4PADSR7000002.DWG

PLOT DATE:

SAMPLE CERTIFICATION (Attachment A)

Affidavit of Compliance for Project Owners

I, _____
(Name of person signing affidavit)(Title)

do hereby certify that background investigations to ascertain the accuracy of the identity and employment history of all employees of:

_____
(Company name)

for employment at:

_____
(Project name and location)

have been conducted as required by the California Energy Commission Decision for the above-named project.

_____
(Signature of Officer or Agent)

Dated this _____ day of _____, 20 _____.

THIS AFFIDAVIT OF COMPLIANCE SHALL BE APPENDED TO THE PROJECT SECURITY PLAN AND SHALL BE RETAINED AT ALL TIMES AT THE PROJECT SITE FOR REVIEW BY THE CALIFORNIA ENERGY COMMISSION COMPLIANCE PROJECT MANAGER.

SAMPLE CERTIFICATION (Attachment B)

Affidavit of Compliance for Contractors

I, _____

(Name of person signing affidavit)(Title)

do hereby certify that background investigations to ascertain the accuracy of the identity and employment history of all employees of:

_____

(Company name)

for contract work at:

_____

(Project name and location)

have been conducted as required by the California Energy Commission Decision for the above-named project.

_____

(Signature of Officer or Agent)

Dated this _____ day of _____, 20 _____.

THIS AFFIDAVIT OF COMPLIANCE SHALL BE APPENDED TO THE PROJECT SECURITY PLAN AND SHALL BE RETAINED AT ALL TIMES AT THE PROJECT SITE FOR REVIEW BY THE CALIFORNIA ENERGY COMMISSION COMPLIANCE PROJECT MANAGER.

SAMPLE CERTIFICATION (Attachment C)

Affidavit of Compliance for Hazardous Materials Transport Vendors

I,

_____

(Name of person signing affidavit)(Title)

do hereby certify that the below-named company has prepared and implemented security plans in conformity with 49 CFR 172.880 and has conducted employee background investigations in conformity with 49 CFR 172, subparts A and B:

_____

(Company name)

for hazardous materials delivery to:

_____

(Project name and location)

as required by the California Energy Commission Decision for the above-named project.

_____

(Signature of Officer or Agent)

Dated this _____ day of _____, 20 _____.

THIS AFFIDAVIT OF COMPLIANCE SHALL BE APPENDED TO THE PROJECT SECURITY PLAN AND SHALL BE RETAINED AT ALL TIMES AT THE PROJECT SITE FOR REVIEW BY THE CALIFORNIA ENERGY COMMISSION COMPLIANCE PROJECT MANAGER.

April 10, 2010

Mr. Eric Veerkamp
Compliance Project Manager
California Energy Commission (CEC)
1516 Ninth Street
Sacramento, CA 95814

Dear Mr. Veerkamp:

Re: Genesis Solar Energy Project (09-AFC-8)

COC Worker Safety 2 – Operations and Maintenance Safety and Health Program

On behalf of Genesis Solar, LLC, we are re-submitting the Operations and Maintenance Safety and Health program in accordance with the Condition of Certification (COC) Worker Safety 2.

With this letter, you will also receive two (2) hard copies of the plans. Please contact Matthew McCord 561-801-1746 for any questions.

Thank you.

Sincerely,

Matthew McCord
Project Engineer

MM:sb

Attachments: Emergency Action Plan
Personal Protective Equipment Plan
Heat Illness Prevention Plan
Hazard Communication Plan
Injury Reporting Plan
Fire Protection Design Criteria (5 Drawings)

cc: Andy Siegelstein, Genesis Solar, LLC, c/o NextEra, Juno Beach, FL, w/o attachment
Ron Johnson, Genesis Solar, LLC, c/o NextEra, Juno Beach, FL, w/o attachment
Luke Goguts, Genesis Solar, LLC, c/o NextEra, Juno Beach, FL, w/o attachment
Charlyn Mosley, c/o NextEra, Juno Beach, FL, w/o attachment
Jennifer Field, Genesis Solar, LLC, c/o NextEra, Juno Beach, FL, w/o attachment
Art Pinto, Fluor Enterprises, Inc., Irvine, CA, w/o attachment
Tommy Pouncy, Fluor Enterprises, Inc., Irvine, CA, w/o attachment

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This Emergency Action Plan will be implemented as herein described.

STATEMENT OF COMPLIANCE

It is noted that this Contingency Plan was prepared in March 2012 by NextEra Energy Genesis Solar.

Thus, I hereby state that the NextEra Energy Genesis Solar has evaluated the requirements of all applicable State and Federal Laws and recognize that this Plan has been prepared in accordance with the requirements therein.

Name: _____

Signature: _____

Title: Plant General Manager

Date: _____

DESIGNATION OF FACILITY EMERGENCY COORDINATORS

It will be plant policy that the *Facility Representative* (as formally designated to the California State Emergency Response Commission in the facility's 40 CFR 355.30(b) notification letter) will be known as the "Facility Emergency Coordinator" for the purposes of defining roles in this Emergency Action Plan. Alternate personnel may serve as the Facility Emergency Coordinator when necessary.

Primary Facility Emergency Coordinator:

_____ Production Manager

Alternate Facility Emergency Coordinator:

_____ Production Specialist

FOR INFORMATION ABOUT THIS PLAN

Personnel who may be contacted for further information or explanation of duties under this plan are as follows:

Charlyn Mosley Safety/Environmental Specialist

Luke Goguts General Manager

1.0 Process Description

The Emergency Action Plan outlined in this document establishes the planned response actions that will be taken by personnel at the Genesis Solar Facility in the event of an emergency situation.

2.0 Objectives

To establish a pre-planned set of actions that are to be taken when an emergency occurs that will minimize health risks to plant personnel and people in the surrounding community, as well as minimize adverse impacts to the environment. It is intended that this plan will make clear to all plant personnel the actions that they are required to take if an emergency situation develops.

3.0 Administration

Paper copies of this Emergency Action Plan shall be maintained at the following plant locations at all times:

(1) The Plant Control Room

An electronic copy of this plan will also be accessible on the facility's LAN and OpModel. This plan will be reviewed upon implementation, whenever revisions are made, and at least annually by NextEra Energy Genesis Solar Facility personnel.

4.0 Regulatory References

This plan has been developed to ensure compliance with OSHA 29 CFR 1910.38 (Emergency Action Plans). NextEra Energy Genesis Solar Facility acknowledges awareness that any significant changes in types or quantities of chemicals or other hazards on the site will necessitate review of this plan. Any such revisions to this plan will be communicated with appropriate agencies and organizations.

5.0 Training

All NextEra Energy employees at the facility shall receive training on this

Emergency Action Plan whenever it is modified or on at least an annual basis. Employees will also be trained when this plan is initially implemented. Contractors and visitors who will enter operating areas of the facility will be trained on plant alarms, mustering locations and evacuation procedures before they enter the facility for the first time, and at least annually thereafter. A listing of contractors with current training on this plan will be maintained at the facility for reference purposes.

6.0 Facility Location Information for Outside Emergency Responders

The Genesis Solar facility is located at 11995 Wiley's Well Road Blythe, CA. Outside responders can gain access to the facility through the checkpoint on the access road to the north of Wiley's Well rest area and then trough the main entrance gate located on the eastern edge of the solar field for Unit 2 approximately 6 miles northeast of the Wiley's Well checkpoint.

7.0 Plant General Emergency Procedure

This emergency plan was developed for the following plausible contingencies that could transpire at the facility:

(1) Personnel injuries and serious health conditions
(2) Fires
(3) Chemical releases
(4) Weather-related causes
(5) Threats to the facility that warn of danger to personnel
(6) Other unanticipated events

It will be the responsibility of the Site/Plant Leader to assess a developing emergency situation and initiate the appropriate actions in this plan to protect personnel, the surrounding environment, and plant equipment from adverse damages. In the event of an emergency, the following actions will be immediately performed:

7.1 ***If the event is a fire, medical, or police emergency, contact 911 immediately.***

7.2 If the event is a fire emergency, medical emergency, police emergency or weather-related emergency, ensure that the following are also contacted:

Title	Name	Office Phone	Cell Phone
Production Manager			
Emergency Coordinator			
Emergency Coordinator			
FPL FPDC	N/A	(561) 694-3636	N/A

7.3 Any work-related permits in affect shall be immediately voided, and personnel involved in such work shall cease all activities.

7.4 All sources of ignition, including hot work, burning cigarettes, portable tools and motor vehicles shall be immediately secured.

7.5 Based upon the type and extent of the emergency, the Site/Plant Leader should assess whether an evacuation should be initiated. The following criteria should be considered in rendering a decision to conduct an evacuation of the facility:

(a) The affected parts of the facility and severity of the emergency.
(b) Restrictions in egress routes caused by the emergency.
(c) Wind direction (if the emergency involves gases/vapors)
(d) People currently located at the facility (day shift, night/weekend shift, visitors/contractors, etc.)

7.6 If the Site/Plant Leader determines that a facility evacuation is necessary, he/she must determine which type of evacuation to direct. The following sections describe the types of evacuations that can be performed:

(a) Immediate Site Evacuation

This type of evacuation would be used only in the event of an emergency grave enough to warrant immediate

evacuation of all personnel. ***In this type of evacuation, operating area personnel should evacuate without regard for shutdown of plant systems or for placing plant systems in the safest mode possible***. This type of evacuation should only be utilized if the safety of personnel in operating areas is in immediate and severe danger, such that any delay in evacuating could result in deaths or injuries to personnel.

(b) Delayed Site Evacuation

This type of evacuation would be used in a serious emergency situation where non-essential personnel (those not involved in plant operations or emergency coordination) are immediately evacuated as a precaution, and essential personnel remain in operating areas to perform a controlled shutdown of the facility prior to evacuating. It is anticipated that this would be the primary type of evacuation used in response to serious emergencies at the facility. The Site/Plant Leader and/or Facility Emergency Coordinator must assess whether or not the prevailing circumstances warrant keeping essential personnel in plant operating areas to perform a controlled shutdown of the facility. ***If personnel will not be exposed to unnecessary danger to perform facility shutdown and/or place the facility into a safe condition, then this is the preferred type of evacuation, as opposed to an Immediate Site Evacuation.***

NOTE: Although the Site/Plant Leader (or Facility Emergency Coordinator) may initially designate an evacuation to be a Delayed Site Evacuation, he/she should always keep in mind that conditions may change rapidly, and result in the need to call for an Immediate Site Evacuation.

7.7 If the Site/Plant Leader (or Facility Emergency Coordinator, as appropriate) determines that an evacuation is necessary, he/she shall ensure that a sounding of the plant alarm is initiated. In this case, an evacuation alarm should be sounded and all employees/visitors accounted for.

7.8 If an evacuation has been directed, and following the sounding of the evacuation alarm, the Site/Plant Leader shall ensure that instructions for evacuation are communicated to personnel over the plant radio system. These instructions should include the following items at a minimum:

(a) The type of evacuation to be performed
(b) Immediate Site Evacuation
(c) Delayed Site Evacuation
(d) The nature of the emergency
(e) The location(s) of the emergency
(f) Any egress routes that should not be used by evacuating personnel (if known and applicable)

7.9 If an evacuation has been ordered, personnel shall follow one of the following evacuation procedures, as appropriate, based upon the direction of the Site/Plant Leader and/or Facility Emergency Coordinator:

(a) Immediate Site Evacuation (APPENDIX 1)
(b) Delayed Site Evacuation (APPENDIX 2)

7.10 Perform the appropriate follow-up procedure(s) below, based upon the type of emergency that is occurring:

(a) Personnel Injuries/Health Conditions (APPENDIX 4)
(b) Fire (APPENDIX 5)
(c) Chemical/Oil Spills and Releases (APPENDIX 6)
(d) Weather-related Emergencies (APPENDIX 7)
(a) Threats to the facility (APPENDIX 8)

APPENDIX 1

Immediate Site Evacuation Procedure

1. Personnel present in the Control Building shall immediately take the following actions:

   (a) Locate and obtain the visitor/contractor sign-in sheet.
   (b) Locate and obtain all immediately accessible hand-held radios.
   (c) Gather in the Control Building as a group, and determine the safest muster area to proceed to, depending upon the known circumstances of the emergency (as indicated on Appendix 3).
   NOTE: The primary muster area must be a predetermined location, with any alternate muster areas selected only when egress routes to the primary muster area are unsafe to proceed along.
   (d) Pass the following information over the plant radio system:
      1) The muster area the employees will be proceeding to.
      2) Visitors/contractors known to be in the operating areas (as indicated by the visitor/contractor sign-in sheet).
   (e) Once emergency personnel have completed the preceding steps, they shall immediately proceed to their designated muster area. Personnel in the Control Building should not delay in evacuating, or wait on other personnel that they anticipate may arrive.
   (f) Upon arriving at the designated muster area, the group shall designate a Person-in-Charge and take a head count of all personnel who are at the muster area, including contractors and visitors.
   (g) After a roll call of all personnel present at the muster area is taken, the Person-in-Charge shall identify which operating area personnel are not accounted for. The Person-in-Charge will then query by radio for personnel who are unaccounted for. The Person-in-Charge shall then establish radio communication with the Emergency Coordinator (if applicable) and relay information on personnel who are unaccounted for.
   (h) All personnel at the muster location shall remain at the muster location until an "ALL CLEAR" signal is sounded, or if directed by the Emergency Coordinator (if applicable) to leave the muster location. The "ALL CLEAR" signal will be communicated by Radio or cellular telephone.

(i) The Person-in-Charge shall continuously monitor the plant radio system when at the muster location.

2. Personnel present in the facility operating areas (other than Control Building) shall immediately perform the following actions:

   (a) If not monitoring the plant radio system, immediately turn on hand-held radios.
   (b) Proceed to the designated muster area, unless the egress route to the muster area is not safe for travel. In such a case, proceed to an alternate muster area.
   (c) Instruct any personnel (including visitors and contractors) who are seen along the way to proceed to the designated muster area.
   (d) Upon reaching the appropriate muster area, report to the Person-in-Charge and continue to monitor the plant radio system. If no other personnel are present at the muster area upon arrival, communicate to the Site/Plant Leader that no other personnel are present in the area.

3. Personnel not in the operating areas of the plant (to include the administration building and parking areas) shall immediately perform the following actions:

   (a) Locate and obtain all immediately accessible hand-held radios.
   (b) Proceed to the designated muster area.
   (c) A Person-in-Charge shall be designated for the muster area. In many cases, this will be the Emergency Coordinator. The Person-in-Charge shall establish radio communications with operating area personnel and compare roll call lists to determine if any personnel are unaccounted for in the facility.
   (d) If the Emergency Coordinator is not present at the muster area, the Person-in-Charge at the muster area will coordinate outside responding agency activities until the Emergency Coordinator arrives. In the event that the Emergency Coordinator is in plant operating areas or has proceeded to the alternate muster area, he/she may elect to designate the muster area Person-in-Charge to act in the capacity of Emergency Coordinator during the emergency.

APPENDIX 2

Delayed Site Evacuation Procedure

1. Personnel present in the Administrative Building shall immediately perform the following actions:

   (a) Take necessary operating actions to place the facility in the most stable condition, based upon the type of emergency.
   (b) Locate and obtain the visitor/contractor sign-in sheet
   (c) Communicate names of visitors/contractors currently in the operating areas to outside operating personnel. Instruct outside operating personnel to locate and direct all visitors/contractors to proceed to the Administrative Building for egress instructions.
   (d) When all visitors, contractors and non-essential operating personnel have been accounted for and are present in the Control Building, the Site/Plant Leader (or Emergency Coordinator, as appropriate) shall designate a trained person to escort all non-essential personnel to the designated muster area along the safest egress route.
   (e) Notify the Emergency Coordinator and Production Staff of the current facility status, and evacuation details.
   (f) Perform a controlled shutdown in accordance with appropriate procedures and directions from the Emergency Coordinator.
   (g) Once the shutdown has been completed, all essential personnel shall gather in the Control Building and take roll call. When all essential operating personnel are present and accounted for, evacuation to the designated muster area shall be performed, unless the egress route is not safe for travel. In such a case, proceed to the alternate muster area.

2. Personnel present in the facility operating areas (other than Control Building) shall immediately perform the following actions:

   (a) Continuously monitor the radio system for information and instructions.
   (b) Perform immediate response actions, as appropriate, to place the facility in the most stable condition, based upon the type of emergency.

(c) Locate and direct non-essential personnel to proceed to the Control Building immediately.
(d) Perform facility shutdown instructions as directed by the Site/Plant Leader.
(e) Upon completion of shutdown, or upon direction by the Emergency Coordinator, proceed to the Control Building for instructions.

3. Personnel not in the operating areas of the facility (to include the Control building and parking areas) shall immediately perform the following actions:

(a) Locate and obtain all immediately accessible hand-held radios.
(b) Proceed to the designated muster area (see Appendix 3).
(c) A Person-in-Charge shall be designated for the muster area. The Person-in-Charge shall establish radio communications with operating area personnel and compare roll call lists to determine if any personnel are unaccounted for in the facility.
(d) The Person-in-Charge at the designated muster area will coordinate outside responding agency activities and provide assistance (to include personnel, resources, and administrative functions) to the Control Building as directed by the Emergency Coordinator and/or Site/Plant Leader.

4. The Emergency Coordinator shall immediately perform the following actions:

(a) Proceed to the Control Building, or to the location on the facility most appropriate for directing response actions for the emergency.
(b) Coordinate actions related to the emergency and provide directions to muster area Persons-in-Charge.
(c) In the event that the emergency escalates in severity or immediate danger to personnel, direct immediate evacuation of all essential operating personnel involved in plant shutdown activities.

APPENDIX 3

Designated Egress Routes and Muster Areas for Evacuations
(to be included when facility plot plan finalized)

NOTES:

1. The Designated Muster Area is located at the Control Building Parking Lot.
2. The Alternate Muster Area is located outside the Main Entrance gate (on the fence line east of Unit 2 solar field). Use of the designated and alternate muster areas will depend on the nature of the event. The event may dictate that neither area is appropriate as a muster area. The Emergency Coordinator will evaluate the situation and decide on the suitability of the primary and alternate muster and designate an alternative muster area or areas as appropriate. Any designation of a muster area other than the primary muster area will be communicated on all available radio channels.
3. The Designated Muster Area is the primary gathering point for personnel, and should be used during evacuations unless the emergency has rendered egress routes to the Muster Area unsafe for travel. The Alternate Muster Area is the alternate gathering point for such circumstances.

APPENDIX 4

Personnel Injuries and Serious Health Conditions

The following sections provide basic guidelines for response actions to be taken in the event of emergencies related to personnel health. Although facility personnel should take the most aggressive response actions that are prudent in an emergency situation, the first and foremost action will be to call 911 to initiate the response of trained outside medical responders. To prepare facility personnel for such contingencies, it will be the facility policy that all operating personnel and as many other personnel as possible should be trained in CPR (Cardiopulmonary Resuscitation) and in the use of an AED (Automated External Defibrillator) if one is available. If present on site, the AED will be maintained at the facility at the designated location in the Control Building.

Basic First Response Actions

- Check for unresponsiveness. Unresponsiveness is when the person is unconscious and does not respond when you call their name or touch them.
- *If the person is unresponsive, immediately call 911 for outside medical assistance and ask other personnel to bring the AED to the scene.* Other personnel should assist with 911 notifications and expediting the delivery of the AED to the scene.
- Next check to see if the victim is breathing normally. If no signs of breathing are observed, the responder should initiate two rescue breaths into the victim. After the rescue breaths, a pulse should be checked for on neck. If a pulse is present, continue with recovery breathing, but do not initiate chest compressions.
- If no pulse is observed, complete CPR, with assisted breathing and chest compressions should be commenced.
- If CPR is being performed and the AED arrives to the scene, direct an assistant to begin setting up the AED for operation on the victim. CPR should be continued during the time that the AED is being set up.
- If the AED is placed into operation, remain near the victim and follow all AED instructions to ensure safety and proper victim monitoring. Maintain the victim with AED monitoring until trained medical responders arrive at the scene.

- If the victim is responsive, but shows signs of shock or has an obvious severe injury, call 911 immediately and take additional actions as described in the sections below.
- If the victim has obvious broken bones or is bleeding profusely or may have neck or spine injuries, *do not attempt to move the victim*. Make the victim as comfortable as possible, and apply pressure to mitigate areas of profuse bleeding until trained medical personnel arrive at the scene.
- Immobilize all injured parts of the victim.
- Prepare victim for transportation, if the victim can be safely moved.

Physical Shock

Symptoms
- Pallid face.
- Cool and moist skin.
- Shallow and irregular breathing.
- Perspiration appearing on the victim's upper lip and forehead.
- Increased, but faint pulse rate.
- Nausea.
- Detached semi-conscious attitude towards what is occurring around him/her.

Treatment
- Request professional medical aid immediately.
- Remain with and attempt to calm the victim.

Electric Shock

Symptoms
- Pale bluish skin that is clammy and mottled in appearance.
- Unconsciousness. No indications that the victim is breathing.

Treatment
- Turn off electricity if possible.
- Call for professional medical assistance and an ambulance immediately.
- Remove electric contact from victim with non-conducting material.
- Perform CPR and call for the AED, if required.

Burns

Symptoms
- Deep red color; or
- Blisters; or
- Exposed flesh.

Treatment
- Cooled immediately if at all possible, and
- Free of any jewelry or metal if it is safe to remove it.
- Do not pull away clothing from burned skin tissue.
- Do not apply any ointment to burn area.
- Seek professional medical assistance as soon as possible.

Heat Stroke

Symptoms
- Face will be red
- Face will be dry to the touch.
- The pulse will be extremely strong and fast.

Treatment
- Rapidly cooled or death can occur.
- Sponged with water.
- Fanned to allow evaporation to occur.
- Moved into a cool environment.

Heat Exhaustion

Symptoms
- Increased heart rate
- Exhaustion can follow.
- An impaired ability to think can exist.
- A lack of coordination may be present.
- Body temperature may be normal.
- Skin can be clammy.
- Weakness and dizziness may result.

Treatment
- Remove from the hot environment.

- Lay victim on their back with feet slightly elevated.

APPENDIX 5

Fire Response Plan

The Genesis Solar Facility has a Fire Prevention Plan that describes measures taken at the facility to prevent, minimize the severity of, and proactively prepare for the event of a fire emergency. However, in the event that a fire should occur at the facility, this Fire Response Plan describes the actions that should be taken by plant personnel. Safe and expedient response actions are essential to protect the health and safety of plant personnel and minimize damages to plant equipment and the surrounding environment.

1. Any person who discovers a fire in the facility should immediately make radio contact with the plant control room, and provide the following information:

   (a) That a fire has been discovered.
   (b) The location and source of the fire.
   (c) Any injuries that have occurred
   (d) The cause of the fire (if known)
   (e) Actions he/she will be taking to extinguish the fire (if appropriate, in accordance with step 2 of this procedure).

   NOTE: Notifying others of the emergency and getting trained responders on the way is the most important step in minimizing injuries to personnel and damage to equipment. However, in the event that the person discovering a fire would be significantly delayed in attempting to extinguish it in its incipient stage by first getting to a radio to report it, the priority would be to extinguish the fire in the incipient stage. Example: A fire commences in the immediate vicinity of a person who does not have immediate access to a plant radio. If the person can quickly extinguish the fire, he/she should do so first, then get to a radio to report the fire as soon as possible thereafter. If a fire progresses to, or is discovered in a state beyond the incipient stage, the ***immediate action is to notify others over the radio and get help.***

2. Any person discovering a fire in its incipient stage should take action as quickly as possible to extinguish the fire. In general, a fire should be considered to be in its incipient stage if it meets two primary criteria:

(a) The fire can be extinguished or controlled with a single portable fire extinguisher, and,
(b) The person discovering the fire perceives an adequate level of safety in attempting to extinguish the fire.

3. As long as the fire is in its incipient stage, as defined above, the person discovering the fire should utilize all appropriate and readily available fire extinguishing equipment to extinguish the fire. ***Fire-fighting efforts beyond the incipient stage will be performed by trained responders only.*** (Note: All plant personnel will be provided with initial and periodic refresher training on the types and locations of fire-fighting equipment at the facility. The *Fire Extinguisher Deployment Plot*, detailing the location of portable fire extinguishing equipment deployed at the facility, is provided at the end of this appendix. Additionally, the *Fire Protection System Plot* details locations of key fire hydrants near or on the facility.)

4. In response to the fire, the Site/Plant Leader will need to make the following determinations:

   (a) The equipment or activities that need to be shutdown and/or ceased.
   (b) If any automatic fire suppression systems were activated as a result of the fire, when to secure such systems.

5. Fires that occur in remote locations such as the solar field may require trained responders. The site/plant leader will assign someone to guide the trained responders to the nearest fire hydrant water supply for their use. Fire hydrant connections are located throughout the Unit 1 and Unit 2 power blocks and in the solar fields refer to drawing A4PA-0-SK-5-FW-01.

APPENDIX 5 (continued)

Fire Response Plan

Fire Extinguisher Deployment Plot
(to be included when plot is finalized)

APPENDIX 6

Chemical/Oil Spills and Releases

The spill or release of any chemical is a potentially serious event, and appropriate response actions must be taken to minimize health hazards to personnel, as well as potential impacts to the environment. It is the policy of the facility that plant personnel will not respond to large spills/releases, but will instead call for trained outside responders to perform this function.

For the purposes of clarification to plant personnel, the term "respond" in this context refers to actions taken to perform clean up measures of a spilled substances, and in some case may even take the meaning of actually stopping the source of a spill. Taking basic response actions to a spill such as setting up barricades, placing containment media and stopping spills in situations such as the step 1 example below should not be construed to be acting in the role of a "responder", as it is defined in OSHA HAZWOPER regulations.

The basic actions to be taken in response to a chemical spill or release are the following:

1. If the spill or release is the direct result of an operational action performed on the system from which the release has originated, the person who performed the action should attempt to stop the release (if possible) ***if it can be stopped without incurring additional personal exposure to the substance.*** An example of this might be the following:

   Example: A person opens the drain valve on a line that results in an unexpected release. If the person can immediately stop the release by closing the valve, this action should be taken if no additional exposure to the chemical will occur by doing so.

2. The person discovering a spill/release should immediately move to a location that is a safe distance from the affected area, but still allows for observation of the affected area (if remaining within observation distance is safe under prevailing conditions; if in doubt, do not risk exposure – leave the area.).

3. The person discovering the spill should look for other personnel in the area, and warn them by any means available of the event that has occurred. The

Site/Plant Leader should be notified immediately over the radio. Information provided should include all of the following that are known:

(a) What type of chemical has been spilled/released.
(b) The location(s) of the spill/release.
(c) If the source of the spill/release has been stopped
(d) If any injuries or chemical exposure has occurred to personnel.
(e) Boundaries describing the area of the spill.
(f) Whether or not the spill is contained.
(g) Quantity released.
(h) Environmental Impacts (water bodies, streams, ground, roadways)

Based upon the report from the person discovering the spill, the Site/Plant Leader shall evaluate whether the circumstances pose a threat to the surrounding community or the environment. ***If a threat is imposed to the community or environment, 911 should be notified immediately***. T

4. The Site/Plant Leader shall make a determination as to whether the spill/release is of a quantity that must be reported to agencies, and if so, which agencies to notify. To perform this step, the Site/Plant Leader shall use the Reportable Quantities Matrix. The Site/Plant Leader shall ensure that all required notifications are made.

5. While remaining at a safe distance from the spill/release, the person discovering the spill should locate and place temporary containment around the outer boundaries of the spill, and place absorbent mats over any plant drains that are near the location of the spill. ***This should be performed only if it is safe to do so without risking chemical exposure.***

6. The person discovering the spill should attempt to barricade, restrict access or otherwise mark off safe boundaries around the spill to avert others from inadvertently approaching the spill area. ***This should be performed only if it is safe to do so without risking chemical exposure.***

7. The person discovering the spill should remain at a safe distance from the source of the spill/release until additional assistance or instructions are received.

8. Unless the person discovering the spill has reported unsafe conditions for approach of the area, the Site/Plant Leader shall immediately proceed to the

spill area to evaluate the severity of the incident. **NOTE: IF ANY PERSONNEL ARE DISCOVERED TO BE UNCONSCIOUS OR OTHERWISE INCAPACITATED UPON APPROACH TO THE SPILL SCENE, ALL PERSONNEL MUST IMMEDIATELY BACK AWAY TO A SAFE DISTANCE FROM THE UNKNOWN THREAT.**

9. The Site/Plant Leader shall evaluate the adequacy of containment, barricades, and any other efforts that have been taken to prevent the spill from migrating to any additional areas or systems, and direct additional actions to be performed (unless it is deemed that any additional actions are unsafe to perform). The adequacy or need for PPE should also be assessed. Upon completing this assessment, the Site/Plant Leader shall notify/inform the Facility Emergency Coordinator of the status of the emergency.

10. Once the Site/Plant Leader (or Emergency Coordinator, as appropriate) has determined that adequate containment and barricading of the spill area exists, he/she shall ensure that an adequately trained observer remains positioned a safe distance from the scene to observe the status of the spill. This observer shall perform radio status checks a minimum of once every three minutes until outside responders arrive for cleanup/mitigation actions.

APPENDIX 7

Weather-Related Emergencies

Natural emergencies considered in this procedure are associated with weather disturbances such as tornadoes, flooding and severe thunderstorms. Flooding waters, lightning, high winds and heavy rains may be detrimental to the employees and or equipment and structures at the facility. Warnings about developing weather emergencies are issued by local radio stations or tracked by onsite weather systems. These warnings should provide adequate information of the approach of weather-related emergency conditions. The Site/Plant Leader at the facility has several means to monitor these weather-related emergencies. These include:

- Internet access to weather-related web-sites;
- AM/FM radio to monitor local news stations

When information is received that a severe weather or tornado watch has been issued for the facility area the following actions shall be taken:

1. The Site/Plant Leader should notify the General Manager.
2. The General Manager shall make a determination about whether or not the plant should be shut down due to the weather situation.
3. Personnel should seek indoor shelter in the plant Administrative Building, or other reinforced structure. Personnel should remain indoors if the severe weather is affecting the immediate area of the facility.

Severe Weather Preparatory Checklist

√ Ensure all portable equipment is stored indoors.
√ Ensure all compartment accessory doors are closed and latched for all steam turbine equipment modules.
√ Ensure that switchgear, load center, and tower doors are closed and latched.
√ Ensure that the Administrative building doors are closed and latched.
√ Place all trashcans in locations not exposed to weather.
√ Make a general housekeeping inspection and ensure that all loose objects and debris that could potentially become airborne are secured or inside.
√ Ensure all radios are fully charged.
√ Secure all Sea Train/CONEX Storage buildings.

APPENDIX 8

Threats to the Facility

In the event that the site receives threatening correspondence either by phone or by other means of communications, the following actions should be performed immediately:

Actions by the person receiving the threat:

1. Gather as much information as possible from the person making the threat. If the threat is via written correspondence, place the correspondence in a location in which it will not be touched or otherwise disturbed until police can be contacted. If the threat is being made verbally (phone, or other), communicate and obtain information from the individual making the threat for as long as possible.

2. Inform the Site/Plant Leader and/or General Manager of the situation.

The Site/Plant Leader and/or General Manager may consider any or all of the following actions to take in response to the threat situation, depending upon the circumstances of the threat:

1. Order an evacuation of the facility.

2. Call 911 for Police or Fire Assistance.

3. Arrange for additional security personnel for the facility.

4. Direct plant personnel to commence a controlled shutdown of the facility.

5. Direct searches to be performed on vehicles entering the facility.

APPENDIX 9

Sabotage to the Facility

Any disturbance, disorder or unusual incidents, suspected or confirmed to be caused by sabotage should be reported **immediately** to Security Operations at **561-694-5000**, local law enforcement, and the FPDC as outlined in procedure **PGD-FPDC-OFF-P001**. This procedure is located on the PGD OpModel under Production/Emergency.

If any situation develops at a NextEra Energy facility where an employee believes their safety or security may be at risk, the employee should leave the area immediately and contact their supervisor and Security Operations. Under no circumstances should any employee put themselves in harm's way.

Site management must make employees aware of any suspicious incidents and communicate security expectations to employees, contractors and vendors.

FLUOR

Fluor Enterprises, Inc.
47 Discovery, 411P
Irvine, CA 92618
USA

949-349-3342 tel
949-349-5641 fax

April 17, 2012

Genesis Solar Project
Fluor Contract No. A4PA
Letter No. FAL-0045

Mr. Eric Veerkamp
Compliance Project Manager
California Energy Commission (CEC)
1516 Ninth Street
Sacramento, CA 95814

Dear Mr. Veerkamp:

Re: Genesis Solar Energy Project (09-AFC-8)

COC HAZ6 – Operations Site Security Plan

On behalf of Genesis Solar, LLC, we are re-submitting the Operations Site Security Plan in accordance with the Condition of Certification (COC) HAZ6. Fluor received comments from the CEC on April 17, 2012 via email and has incorporated the comments into the attached revised plan.

In the attachment section of the Operations Site Security Plan are sample affidavits that will be signed prior to Commercial Operation Date (COD). The Genesis Project requests conditional approval until the affidavits are signed and submitted at a later date.

With this letter, you will also receive two (2) hard copies of the plans. Please contact Tom Pouncy 949-349-4850 for any questions.

Thank you.

Sincerely,

Chris Jensen
Project Manager
TP AAFP
CJ:TP:AP:sb

Attachments: Two (2) - Operations Site Security Plan

cc: Andy Siegelstein, Genesis Solar, LLC, c/o NextEra, Juno Beach, FL, w/o attachment
Ron Johnson, Genesis Solar, LLC, c/o NextEra, Juno Beach, FL, w/o attachment
Matthew McCord, Genesis Solar, LLC, c/o NextEra, Juno Beach, FL, w/o attachment
Charlyn Mosley, c/o NextEra, Juno Beach, FL, w/o attachment
Jennifer Field, Genesis Solar, LLC, c/o NextEra, Juno Beach, FL, w/o attachment
Art Pinto, Fluor Enterprises, Inc., Irvine, CA, w/o attachment
Tommy Pouncy, Fluor Enterprises, Inc., Irvine, CA, w/o attachment
Sasha Aguilera, Fluor Enterprises, Inc., Irvine, CA, w/o attachment
Gary Mack, Fluor Enterprises, Inc., Irvine, CA, w/o attachment

File No.: G100-210-R

Genesis Solar LLC
Genesis Solar Energy Project
Riverside County, California
Project No. A4PA

Hazardous Materials Management Operations Site Security Plan HAZ-6

Submitted to:
California Energy Commission
Sacramento California

Submitted by:
Genesis Solar, LLC

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1.0 INTRODUCTION

This document provides methods and information outlining the Genesis Site Specific Security Plan during and after construction of the Genesis Solar Energy Project, near Blythe, California.

Due to the large area this project encompasses, the construction of this project will be achieved in two different construction phases. Phase 1 will consist of the construction of the private main entrance road (approximately 6.5 miles) and phase 2 will be construction of the plant site proper.

This document also describes the minimum technical requirements for the design of a Security System to be installed in conjunction with a Concentrating Solar Power (CSP) power plant. The Genesis facility shall consist of two solar fields consisting of Solar Trough Panels that use a tracking system to follow the sun. The sun's energy is concentrated by parabolic curved, trough-shaped reflectors onto a receiver pipe running along the inside of the curved surface. This energy heats oil flowing through the pipe and the heat energy is then used to generate electricity in a conventional steam generator. The collector fields shall be comprised of many troughs in parallel rows aligned on a north-south axis. This configuration shall enable the single-axis troughs to track the sun from east to west during the day. Power meters are used to monitor the output voltage up to the point of interconnect to the grid. The Genesis Plant Power Blocks will generate approximately 125 megawatts of electricity each for a combined total output of 250 megawatts.

The Genesis Solar Plant will be constructed approximately 6.5 miles N/W of the 10 Freeway and Wiley's Well Road exit which is approximately 20 miles west of the town of Blythe "as a point of reference" and is located in the South Eastern area of Southern California. An access road shall be constructed to provide vehicles with paved road access to the Solar Plant. A fiber optic data communication connection to the Local Exchange Carrier (LEC) will be provided for interactive plant data communications to critical outside interfaces. The installation of a fiber optic data communication cable will include the construction of an approximately 6.5-mile fiber optic data transmission cable that will provide a data communication interface for the plants outgoing and incoming data connections. The fiber optic cable shall support splice panels to interconnect the Security System from the plant private access road entrance gate to the head-end Security System interfaces located in the plant site common area Administration and Control Building. The fiber optic data transmission cable shall be armored in design, constructed for aerial, buried and duct installations and run in parallel with a 12kV electrical transmission line (both to share the same transmission line poles). The new fiber optic data transmission cable, 12kV transmission line, access road, and a natural gas pipeline will generally be co-located in one linear corridor to serve the main project facility.

2.0 PERMANENT FENCING

The permanent fence will consist of both an 8'-0" high security fence topped with barbed wire and on the west side of each solar field the fence will be 16'-0" high without barbed wire.

In the attachments, sketch A4PA-0-SK-00-29, shows the extent of each the 16'-0" high wind fence and 8'-0" high security fence.

3.0 MAIN ENTRANCE SECURITY GATE

The main entrance security gate will be motorized. Further details of the controls are outlined in section 7.0 Site Access Controls.

4.0 EVACUATION PROCEDURES

The evacuation procedures establish the planned response actions that will be taken by personnel at the Genesis Facility in the event of an emergency situation.

It is the responsibility of the Site/Plant Leader to assess a developing emergency situation and initiate the appropriate actions to protect personnel, the surrounding environment, and plant equipment from adverse damage. In the event of an emergency the following actions will be performed:

- In the event there is a fire, medical or police emergency - contact 911 immediately.
- If the event is a fire, medical, police, weather-related ensure the following are also contacted: Production Manager (Emergency Coordinator); Operations Specialists (Emergency Coordinator); Maintenance Specialists (Emergency Coordinator)
- Any work-related permits in effect shall be voided and personnel involved in such work shall cease all activities.
- Based upon the type and extent of the emergency, the Site/Plant Leader should access whether an evacuation should be initiated. The Site/ Plant leader will determine the severity of the emergency and determine if the operations staff should conduct a controlled shutdown of equipment or it is necessary for everyone vacate the site/area to remove personnel from immediate danger.

If the Site/Plant Leader (or Emergency Coordinator) determines that an evacuation is necessary, they shall ensure that a sounding of the plant alarm system is initiated. The evacuation alarm should be sounded and all employees/visitors accounted for.

If an evacuation has been directed and following the sounding of the evacuation alarm, the Site/Plant Leader shall ensure that instructions for the evacuation are communicated to personnel over the plant radio system. The instructions should include the nature of the emergency / the location of the emergency / the muster point to be used / and egress routes that should not be used by evacuating personnel.

The primary evacuation point will be the parking lot of the administrative building in the common area (outside the control room building). The secondary muster point will be outside the main access gate on the east side of solar field for Unit 2.

Once the emergency has ended and the site deemed safe for operations and work the Site/Plant Leader (or Emergency Coordinator) will communicate the all clear to personnel over the radio. Personnel are not allowed back into the areas that have been evacuated until the all clear signal is communicated from the Site/Plant Leader (or Emergency Coordinator).

5.0 PROTOCOL FOR CONTACTING LAW ENFORCEMENT

Communication with law enforcement and other emergency support will be coordinated through the control room to ensure all activities are coordinated on-site. Contact for all emergency support for the site will be made through the 911 system to ensure the proper emergency support is notified. If any personnel on-site are in need of emergency services they shall contact the control room through the plant radio system to let them know what support they need and their location. The control room will then call 911 to request services and coordinate on-site activities.

6.0 RECEIPT OF SUSPICIOUS PACKAGES

In the event that the site receives threatening correspondence either by phone or other means of communication or there is a suspicious package received on-site the following actions should be performed immediately:

Actions by the plant personnel receiving the threat:

- Gather as much information as possible from the person making the threat. If the threat is via written correspondence, place the correspondence in a location in which it will not be touched or otherwise disturbed until police can be contacted. If the threat is made verbally (phone, or other), communicate and obtain as much information from the individual making the threat as possible.
- Inform the Site/Plant Leader and General Manager of the situation.

Actions by the plant personnel, contractors and vendors discovering a suspicious object or package on or near the plant site:

- Do not disturb, move or pickup the suspicious object / package.
- Do not try to open the package.
- Note any details easily visible about the object / package.
- Immediately inform the Site/Plant Leader of the situation.

The Site/Plant Leader and/or General Manager may consider any or all of the following actions to take in response to the situation:

- Order an evacuation of the facility.
- Call 911 for Police or Fire Assistance
- Arrange for additional security personnel for the facility.
- Direct plant personnel to commence a controlled shutdown of the facility.

Signed Affidavit forms are in the Attachment Section.

7.0 SITE ACCESS CONTROLS

The Genesis Solar Plant Security System shall be comprised of an Access Control System (ACS) and Closed Circuit Television (CCTV) System designed to provision a fully functional, efficiently integrated total plant solution. The ACS shall be comprised of Proximity "Badge" Readers, Intercoms, Door Locks, Monitor Screens, Matrix server(s), User Workstations. A Security Software Application package shall be installed on the Server(s) and workstations to monitor and manage the operation and control of the ACS and CCTV devices. The CCTV system shall be comprised of IP enabled network cameras installed at the plant Access Road Entrance Gate, Main Access Gate, Power Blocks, and Admin-Control Building to provide a fully integrated and secure view of all critical locations throughout the plant.

The Genesis Solar Plant Security System shall be installed at various locations throughout the plant and is further described in the following sections:

- ACCESS ROAD - SECURITY GATE ACCESS CONTROL AND CCTV - (SEC. 7.1)
- MAIN PLANT ENTRANCE - SECURITY GATE ACCESS CONTROL AND CCTV- (SEC. 7.2)
- SECURITY SYSTEM COMPONENTS - (SEC.7.3)
- CONTROL ROOM - ACS, CCTV CONTROL AND MONITORING - (SEC. 7.3)
- POWER BLOCK AND COMMON AREA - ACS AND CCTV - (SEC. 7.5)
- SECURITY SYSTEM UNINTERRUPTED POWER SUPPLY (UPS) - (SEC. 7.6)

7.1 ACCESS ROAD - SECURITY GATE ACCESS CONTROL AND CCTV

The Genesis Plant will have two security gates that all traffic must pass through prior to entering into the interior region of the plant. The first point of entrance is the Wiley's Well "Plant Access" Road, which, will serve primarily as a screening gate for visitors while also providing a discretionary deterrent to the general public. The Genesis Plant access road is a road that transitions from Wiley's Well Road to a private right of way approximately ¼ mile past the public rest stop. The access gate entrance shall be used to discourage non-authorized vehicles

from attempting to drive onto the access road. The Access Road Entrance gate shall be provisioned with the following Security System components:

- Pan Tilt and Zoom (PTZ) Cameras (Area Surveillance)
- Fixed Cameras (Identity Management)
- Intercom (Voice Communication Transport)
- Proximity Readers (Security Badge Access for Authorized Personnel)
- Ground Loops (Vehicular Detection)
- Boom Gates (Blocks Unauthorized Vehicular Access)
- Area Lighting (Night Visibility)
- Fiber Splice Panel (Data Communication Transport)
- Power Panel (Local Power Requirements)
- Underground Conduits (Power and Data Interconnectivity)
- Vandal Proof Security Equipment Enclosure (Equipment Protection)
- K12 Rated Bollards (Equipment Protection)

The installation of the above components shall be utilized to manage the ingress of vehicles onto the Private Genesis Access Road (Wiley's Well Road). With exception to the fiber splice panel, power panel and ground loop sensors, all security equipment shall be located on a concrete island constructed in the middle of the access road. The fiber splice panel and power panel shall be located near a transmission line pole constructed to carry both power and fiber and shall be the origination point for all power and data specific underground conduits that interconnect the entrance gate security equipment located approximately 300 ft to the East.

Authorized access to the Plant Access Road shall be granted to employees and authorized individuals using a Security Badge issued by Genesis Security Personnel. A valid security badge detected by the entrance gate proximity reader shall raise the boom gate and allow one (1) vehicle to pass and shall be a security system controlled function that does not require human intervention. Ground Loop Sensors shall be installed fore and aft of both entrance and exit Boom Gates to allow the Security System to detect approaching vehicles and determine when vehicles have entered into or exited from the Plant Access Road.

A security stanchion shall be installed on a concrete security island to support two (2) fixed cameras, two (2) proximity "badge" readers and one (1) intercom. A single camera and proximity reader shall be grouped and installed using height requirements to support large vehicles and semi trucks and a single camera and proximity reader shall be grouped and installed using height requirements to support passenger vehicles. The intercom shall be installed between the upper and lower equipment groupings. This combination shall provide arriving vehicles with the ability to electronically communicate to plant operators without exiting their vehicle.

All Visitor's and Guests may be granted access by authorized plant personnel and shall be accomplished by using both a fixed camera and intercom as a visual and audible means of communications. Plant personnel using ACS software and/or hardwired switches may electronically grant approved guest and visitor access from the remote Control Building.

For Visitors and Guests that are denied access, a paved turnaround pad shall be constructed to allow all vehicles the required clearance to turn a vehicle around and exit the entrance gate area.

Exiting of vehicles leaving the Genesis Plant Access Road shall be accomplished using a ground loop to detect outbound vehicles as they approach the exit gate. The Security System shall interpret the signal and raise the exit Boom Gate. A second ground loop will be installed just past the exit gate to detect the exited vehicle and immediately signal the gate to lower.

All access gate equipment shall be both weather proof and vandal proof in design and housed in vandal proof enclosures. Due to the wide-open nature of the plant and plant access road, vandal-proofing the security equipment shall require using bullet-proof enclosures for equipment located on, near or outside the plant perimeter. The use of K12 rated bollards shall be installed around the concrete security island to protect equipment from vehicular damage.

Outdoor security lighting shall be installed for the access gates. Outdoor area lighting shall consist of permanently mounted fixtures secured to the concrete security island and shall provide access lighting for maintenance vehicles and security. The lighting system shall be designed to provide nighttime lighting levels consistent with applicable illuminating Engineering Society standards, California Energy Commission Conditions of Certifications and Riverside County zoning ordinances.

Two (2) PTZ security cameras shall be installed one mounted to each of the two (2) light poles located on the security island and shall be used to monitor inbound and outbound traffic including the surrounding area. Each camera shall be capable of viewing 360° for redundant coverage capabilities. Cameras shall be designed specifically for harsh climates with integrated active cooling and reliable video surveillance designed for desert environments. The high-speed PTZ camera shall support powerful zoom and High Definition Television (HDTV) resolution of 1080p, operate in heat up to 167 °F with the ability to withstand sandstorms and conform to military standard, MIL-STD-810G.

7.2 MAIN PLANT ENTRANCE - SECURITY GATE ACCESS CONTROL AND CCTV

The Main Plant Security Entrance Gate is the second gate to pass through prior to gaining entrance into the Genesis Plant, this gate is located at the east side of Solar Field #2 and is approximately 6.5 miles N/W of the Access Road Security Gate. The Genesis Plant access road transitions to the plant interior at the main gate entrance. A gate shall be installed to prevent access of non-authorized vehicles. The Main Plant Entrance Gate will at minimal be provisioned with the following Security System components:

- PTZ Camera
- Fixed Camera
- Intercom
- Proximity Reader
- Vehicle Detection
- Gate
- Lighting
- K12 Rated Bollards

The installation of the above components shall be utilized to manage the ingress of vehicles into the Genesis Plant interior. A fiber splice panel and power panel shall be provisioned in close proximity to the security equipment enclosure.

Authorized access to the Genesis Plant shall be granted to employees and authorized contractors using a Security Badge issued by Genesis Security Personnel. A valid security badge detected by the entrance gate proximity reader shall activate the opening of the gate allowing a single vehicle to pass and shall be an automated function that does not require human intervention.

The main gate entrance will utilize a motorized sliding security gate. A security stanchion shall be installed to support fixed cameras, proximity "badge" readers and an intercom. A single camera and proximity reader shall be grouped and installed using height requirements to support large vehicles and semi trucks and a single camera and proximity reader shall be grouped and installed using height requirements to support passenger vehicles. The intercom shall be installed between the upper and lower equipment groupings. This combination shall provide arriving vehicles with the ability to electronically communicate to plant operators without exiting their vehicle.

All Visitor's and Guests may be granted access by authorized plant personnel and shall be accomplished by using both a fixed camera and intercom as a visual and audible means of communications. Plant personnel using ACS software and/or

hardwired switches may electronically grant approved guests and visitor's access from inside the remote Control Building.

Visitors and Guests that have been denied access shall be required to exit utilizing the two lane access road they arrived on. Note: This should be a rare occurrence based on traffic screening processes at the access road entrance gate.

Exiting of vehicles leaving the Genesis Plant shall be accomplished using an automated vehicle detection device as they approach the exit gate. The Security System shall process a signal and open the Sliding Gate. Similarly, an automated vehicle detection device will sense the vehicles exit and signal the gate to close.

All access gate equipment shall be both weather proof and vandal proof in design and/or housed in vandal proof enclosures. The use of K12 rated bollards shall be installed around the concrete security island to protect equipment from vehicular damage.

Outdoor security lighting shall be installed for the access gates and shall consist of permanently mounted fixtures secured to the security island and shall provide access lighting for maintenance vehicles and security. The lighting system shall be designed to provide nighttime lighting levels consistent with applicable illuminating Engineering Society standards and Riverside County zoning ordinances.

A PTZ security camera shall be mounted to the security island light pole with a default homed position facing south to monitor inbound/outbound access road traffic and surrounding area. A PTZ Camera shall be installed on a light pole located inside the plant perimeter facing west to monitor all inbound/outbound plant access road traffic and surrounding area. Each camera shall be capable of viewing 360° for redundant coverage capabilities. Cameras shall be designed specifically for harsh climates with integrated active cooling and reliable video surveillance designed for desert environments. The high-speed pan/tilt/zoom cameras shall support powerful zoom and HD resolutions, operate in extreme heat and withstand sandstorms.

7.3 SECURITY SYSTEM COMPONENTS

The Genesis Security System shall be a General Electric M3000 Access Control System (ACS) and shall manage security for all areas of the plant. The Security System shall at minimal be equipped with the following features and include the following components to facilitate a fully functional complete security system.

- Card Readers, Intercoms, Cameras
- Access Gates
- Door Locks

- Security Workstations, Security Server, Security Application Software
- Digital Video Recorder "DVR" Large Screen TV Monitors
- K12 Rated Bollards
- UPS - (24 hour minimal, Battery Backup for all outdoor equipment)

Note: all Outdoor Equipment shall be rated to withstand temps in excess of 130° F or protected by using sun shades, equipment covers or installed in protected areas to avoid excessive temperatures.

7.4 CONTROL ROOM ACS, CCTV CONTROL AND MONITORING

The Control Room shall have multiple CCTV monitors capable of providing a selection of viewing options for all plant Cameras. Monitors shall be capable of segmental viewing; the receiving inputs shall come from dual monitor display cards installed in each of the Security System workstations located in the control room and shall be located within close proximity to a video wall monitor. The Security System workstations shall provide redundant controls of all CCTV views so that in the event one of the workstations fails or requires offline maintenance, full CCTV control can be maintained without interruption. The security workstations shall allow operators or security personnel to manually operate the cameras through security software control inputs. Additionally manual joystick provisioned keyboard controllers shall be installed at each of the security system workstations to enable control operators to have full CCTV control without tying up workstations. The default CCTV viewing parameters shall be configured to provide operators and security personnel with optimal views for all cameras based on the area coverage and functional security role of each camera.

CCTV Cameras shall be a combination of both Fixed and PTZ styles, PTZ cameras shall be used for area monitoring, Fixed cameras shall be used at Security Gates, Control Building Main Entrance and each of the Control Room Entrances for Identity Management. The integrated functionality of cameras and security server software shall provide a Security System capability of detecting motion, presenting an alarm and automatically zooming and tracking the motion until human intervention validates or dismisses the condition. This process is referred to as an automatic call-up and shall also apply to the proximity readers in the event that an invalid card read occurs (where a card reader controlled door is held or forced open). CCTV Cameras shall be configured with presets that detect ACS alarm conditions and automatically zoom to the alarm event location. In the case of simultaneous alarms, each alarm shall be sequentially queued and the associated video shall automatically call-up and display on a monitor. Intercoms shall be installed at each of the Vehicle Gates, Control Room Entrance Doors, the Control Building Main Entrance, Control Room Operator Consoles and all Power Block and Common Area buildings provisioned with a proximity reader. The intercoms shall provide 2-way voice communications for Control Room

Operators and/or Receptionist. Intercoms shall operate interactively and seamlessly with Cameras and Proximity Readers. Intercoms shall be used primarily to identify individuals seeking entrance to the Genesis Plant facilities. If a Control Operators or Receptionist verify and approve requested access they can invoke remote activation of gates or open/unlock security provisioned doors granting entrance via the interactive Security System software and/or electronic signaling via a manually activated remote relay switch. In the event of a plant emergency where non-badged individuals i.e. Police Officer or Fireman require access to a remote building equipped with an Intercom, an Intercom access request may be granted via the security system.

A Network Video Recorder (NVR) shall be provisioned to store video records and shall include time frame of events captured during certain periods. The digital video recorder along with all Servers, Network Switches, Interface Devices, Power Supplies and Auxiliaries shall be installed in network racks in the DCS/IT room located on the first floor of the Admin-Control Building.

7.5 POWER BLOCKS AND COMMON AREA ACS AND CCTV

Power Block 1, Power Block 2 and Common Area buildings shall be provisioned using PTZ Dome Network Cameras with integrated active cooling and reliable video surveillance designed for desert environments. The high-speed pan/tilt/zoom cameras shall support powerful zoom and HD resolutions, operate in extreme heat with the ability to withstand sandstorms. The Cameras shall support advanced climate control system and handle rapid temperature changes to eliminate condensation. Cameras shall be IP66 and NEMA 4X-rated making it dust and waterproof. Cameras shall support day and night functionality, wide dynamic range, H.264, automatic guard tour, preset positioning, alarm management and auto-tracking.

The Power Block PTZ cameras will be strategically located approximately 70 ft above grade so that each camera can be dedicated to constant monitoring of the Power Block perimeter, enabling a full spectrum panoramic view. The automated security system software will remotely control all monitoring cameras enabling the camera to activate, focus and track suspected changes in the video field. The cameras will be capable of remote 360° directional and zoom-focus control for human intervention as required.

Power Block 1 and Power Block 2 buildings shall have Proximity Readers and Intercoms installed to the left of the access door for the following buildings/rooms; Electronics Room, Workshop/Storage Room North, Workshop/Storage Room South, Electrical Room, Battery Room, PDC. The PDC shall have a homerun fiber connection to the Electronics Room Layer 2 aggregate switch. A fiber optic link to the Admin-Control Building head end security

switches shall be a homerun originating at the Electronics Room Layer 2 aggregate switch. All other access doors in each of the power blocks shall be keyed lock entry and require individuals seeking access to obtain a key by providing their personal information as part of the facilities access policy.

Water Treatment Common Area buildings shall have Proximity Readers and Intercoms installed to the left of the access door for the following buildings; Waste Water Treatment building and PDC building. The Waste Water Treatment building shall have a homerun fiber connection to the PDCs Layer 2 aggregate switch. A fiber optic link to the Admin-Control Building head end security switch shall originate at the PDCs Layer 2 aggregate switch. All other access doors in the Water Treatment Common Area shall be keyed lock entry and require individuals seeking access to obtain a key by providing their personal information as part of the facilities access policy.

7.6 SECURITY SYSTEM UPS

All Security System components shall be designed for 'clean' UPS or generator power enabling at minimal 24 hours of uninterrupted operation. This includes CCTV Cameras, Proximity Readers, Intercoms, Monitoring Equipment (servers, workstations, NVR's), Security Network Switches and or Media Converters, Gates and all Security Area Lighting.

8.0 SIGN STATEMENT OF RECEIVING HAZARDOUS MATERIAL

See the attached signed form in the attachments section.

9.0 SECURITY MONITORING SYSTEM

In section 7.0 Site Access Control, the monitoring system is discussed.

10.0 PERIMETER SECURITY

The Genesis Plant will have 24 hour plant personnel and provide CCTV able to view both site entrance gates and 100% of the power block perimeter. Further detail of the Genesis Plant monitoring system is stated in section 7.0 Site Access Control.

11.0 ATTACHMENTS

- A4PA-0-SK-0-00-29 Fencing Plan
- Genesis Security Overview (For Reference)
- Signed Affidavits

(02/10/11)

FOR REVIEW

REDUCED PRINT SCALE 1"=600'

LEGEND:

8FT REGULAR SECURITY FENCE

5 METER COMBINED WIND/ SECURITY FENCE

GSEP N 31207.87 E 3800.91

STATE PLANE N 2191967.1793 E 6935394.6238

8FT REGULAR SECURITY FENCE

GSEP N 28250.82 E 12055.58

STATE PLANE N 2189010.1265 E 6943649.2878

5 METER COMBINED WIND/ SECURITY FENCE

GSEP N 27033.36 E 4246.91

STATE PLANE N 2187792.6661 E 6935840.6238

8FT REGULAR SECURITY FENCE

5 METER COMBINED WIND/ SECURITY FENCE

GSEP N 22946.55 E 12055.58

STATE PLANE N 2183705.8600 E 6943649.2878

REV	DATE	REVISION DESCRIPTION	BY	CHK	APPV	REFERENCE DWG NUMBER	REFERENCE DRAWINGS

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FLUOR. Genesis Solar LLC

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CONTRACT A4PA	DRAWING BY HS	
DESIGNED BY PT		
CHECKED BY HC		
SUPERVISOR HC		APP DATE
TEXAS ENGR/SPEC. CP		APP DATE
FLUOR		APP DATE
CLIENT		APP DATE

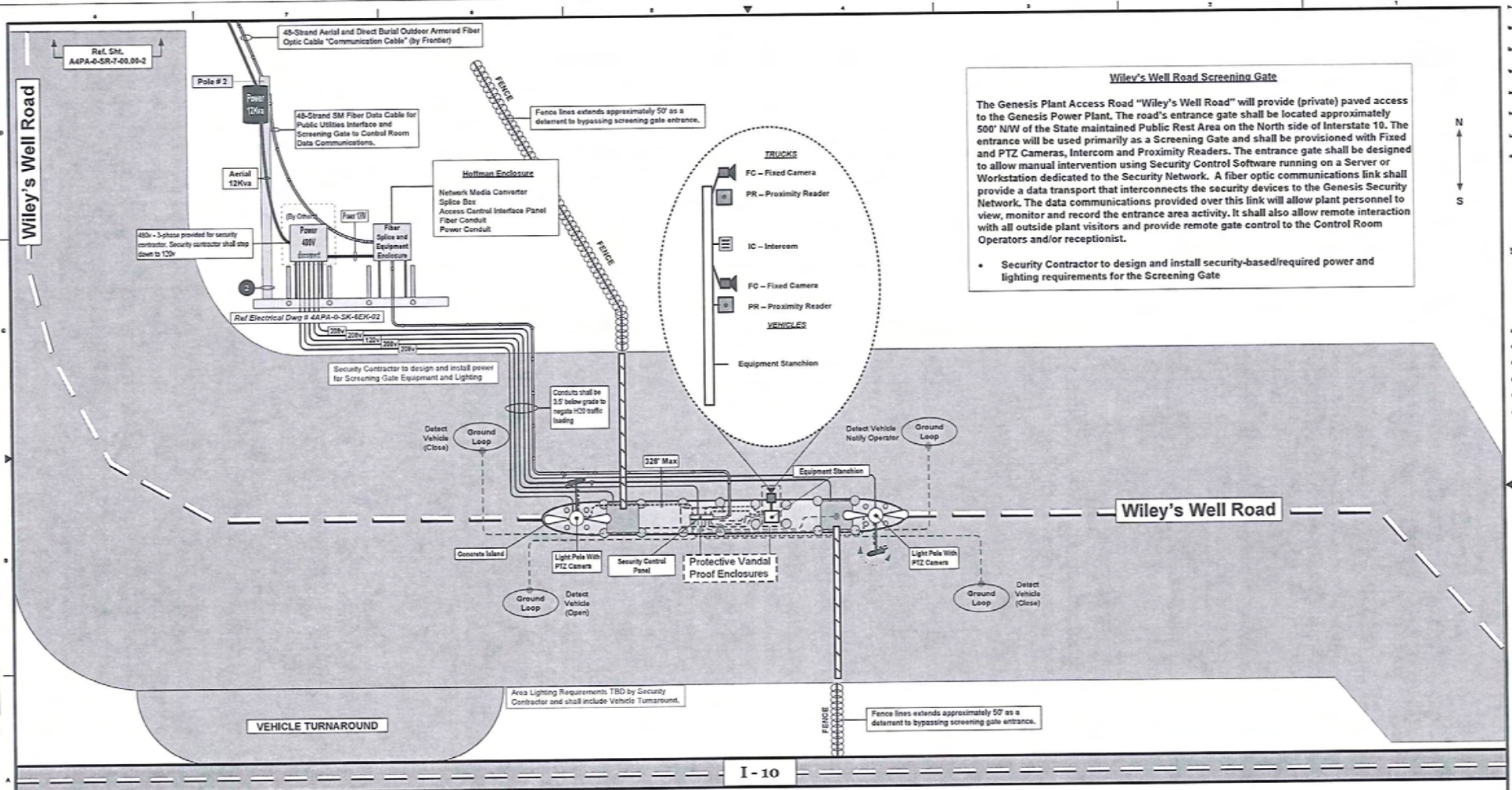
Genesis Solar Energy Project
Riverside County, California

PRELIMINARY SITE FENCING LAYOUT
UNIT 1 & 2

SCALE	DRAWING NUMBER	REV
1" = 600'	A4PA-0-SK-0-00-29	A

CAD FILE NAME A4PA-0-SK-0-00-29.DGN

PLOT DATE: 04-MAR-2011 11:09 FILE SPEC:R:\CAD\210\dwgs_JS\Sketch\A4PA-0-SK-0-00-29.dgn



Wiley's Well Road Screening Gate

The Genesis Plant Access Road "Wiley's Well Road" will provide (private) paved access to the Genesis Power Plant. The road's entrance gate shall be located approximately 500' N/W of the State maintained Public Rest Area on the North side of Interstate 10. The entrance will be used primarily as a Screening Gate and shall be provisioned with Fixed and PTZ Cameras, Intercom and Proximity Readers. The entrance gate shall be designed to allow manual intervention using Security Control Software running on a Server or Workstation dedicated to the Security Network. A fiber optic communications link shall provide a data transport that interconnects the security devices to the Genesis Security Network. The data communications provided over this link will allow plant personnel to view, monitor and record the entrance area activity. It shall also allow remote interaction with all outside plant visitors and provide remote gate control to the Control Room Operators and/or receptionist.

- Security Contractor to design and install security-based/required power and lighting requirements for the Screening Gate

NETWORK Interface Cables

- FIBER OPTIC CABLE – Field Connected Nodes (Physical Media as Noted)
- FIBER OPTIC PATCH CABLE - (Physical Media as Noted)
- CAT6 - Ethernet - (Physical Media as Noted)
- Serial Cable (Serial RS-485 1-Pair Belden # 3105A)

NOTES:

1). Vehicle Sensor Type - Ground Loop
2). Lighting Requirements TBD by Security Contractor (Entire Entrance / Gate area)
3). Vandal proofing of Network Enclosures required - (Bullet Proof)

Security Device Wiring TBD by Security Contractor

NOT TO SCALE

POWER 120v 480v / 12Kva (as noted) | POWER POLE - | BOLLARD - | AREA LIGHTING POLE - | INTERCOM (IC) - | FIXED CAM (FC) - | PROXIMITY READER (PR) - | PTZ CAM (PTZ) -

REV	DATE	REVISION DESCRIPTION	BY	CHK	APPV	REFERENCE DWG NUMBER	REFERENCE DRAWINGS
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CONTRACT A4PA | DRAWN BY G.MACK | DESIGNED BY G.MACK | CHECKED BY MICHAEL J. WESSERSCHMITT | APPROVED W.D.BECKHAM 01/26/2012 | LEAD ENGINEER(S) B.CONCEPCION 01/26/2012 | FLUOR A.PINTO 01/26/2012 | CLIENT

Genesis Solar Energy Project

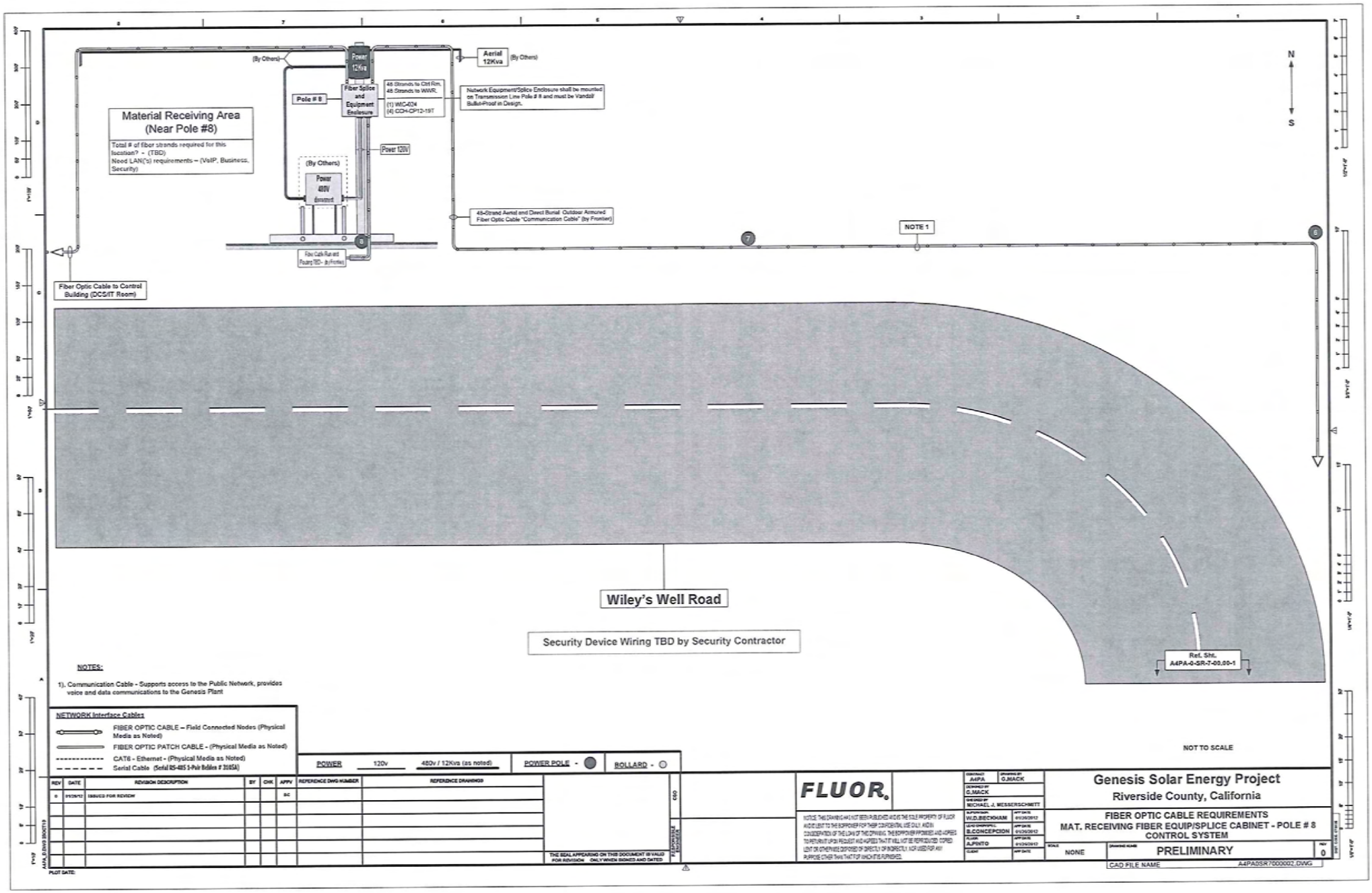
Riverside County, California

FIBER OPTIC CABLE REQUIREMENTS
WILEYS WELL ACCESS ROAD ENTRANCE SYSTEM – POLE # 2
CONTROL SYSTEM

SCALE NONE | DRAWING NUMBER PRELIMINARY | REV 0

CAD FILE NAME A4PA0SR7000002.DWG

PLOT DATE:



Material Receiving Area
(Near Pole #8)
Total # of fiber strands required for this location? - (TBD)
Need LAN('s) requirements – (VoIP, Business, Security)
(By Others)
Power 12Kva
Aerial 12Kva
(By Others)
Pole # 8
Fiber Splice and Equipment Enclosure
48 Strands to Ctrl Rm, 48 Strands to WWR.
(1) WIC-024
(4) CCH-CP12-19T
Network Equipment/Splice Enclosure shall be mounted on Transmission Line Pole # 8 and must be Vandal/ Bullet-Proof in Design.
Power 120V
(By Others)
Power 480V
48-Strand Aerial and Direct Burial Outdoor Armored Fiber Optic Cable "Communication Cable" (by Frontier)
NOTE 1
Fiber Optic Cable to Control Building (DCS/IT Room)
Wiley's Well Road
Security Device Wiring TBD by Security Contractor
Ref. Sht. A4PA-0-SR-7-00.00-1
N
S
NOTES:
1). Communication Cable - Supports access to the Public Network, provides voice and data communications to the Genesis Plant
NETWORK Interface Cables
FIBER OPTIC CABLE – Field Connected Nodes (Physical Media as Noted)
FIBER OPTIC PATCH CABLE - (Physical Media as Noted)
CAT6 - Ethernet - (Physical Media as Noted)
Serial Cable (Serial RS-485 5-Pair Belden # 3105A)
POWER 120v 480v / 12Kva (as noted)
POWER POLE -
BOLLARD -
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DESIGNED BY G.MACK
CHECKED BY MICHAEL J. MESSERSCHMITT
APPROVED BY W.D.BECKHAM
LEAD DISCIPLINE B.CONCEPCION
FLUOR A.PINTO
CLIENT
Genesis Solar Energy Project
Riverside County, California
FIBER OPTIC CABLE REQUIREMENTS
MAT. RECEIVING FIBER EQUIP/SPLICE CABINET - POLE # 8
CONTROL SYSTEM
SCALE NONE
PRELIMINARY
REV 0
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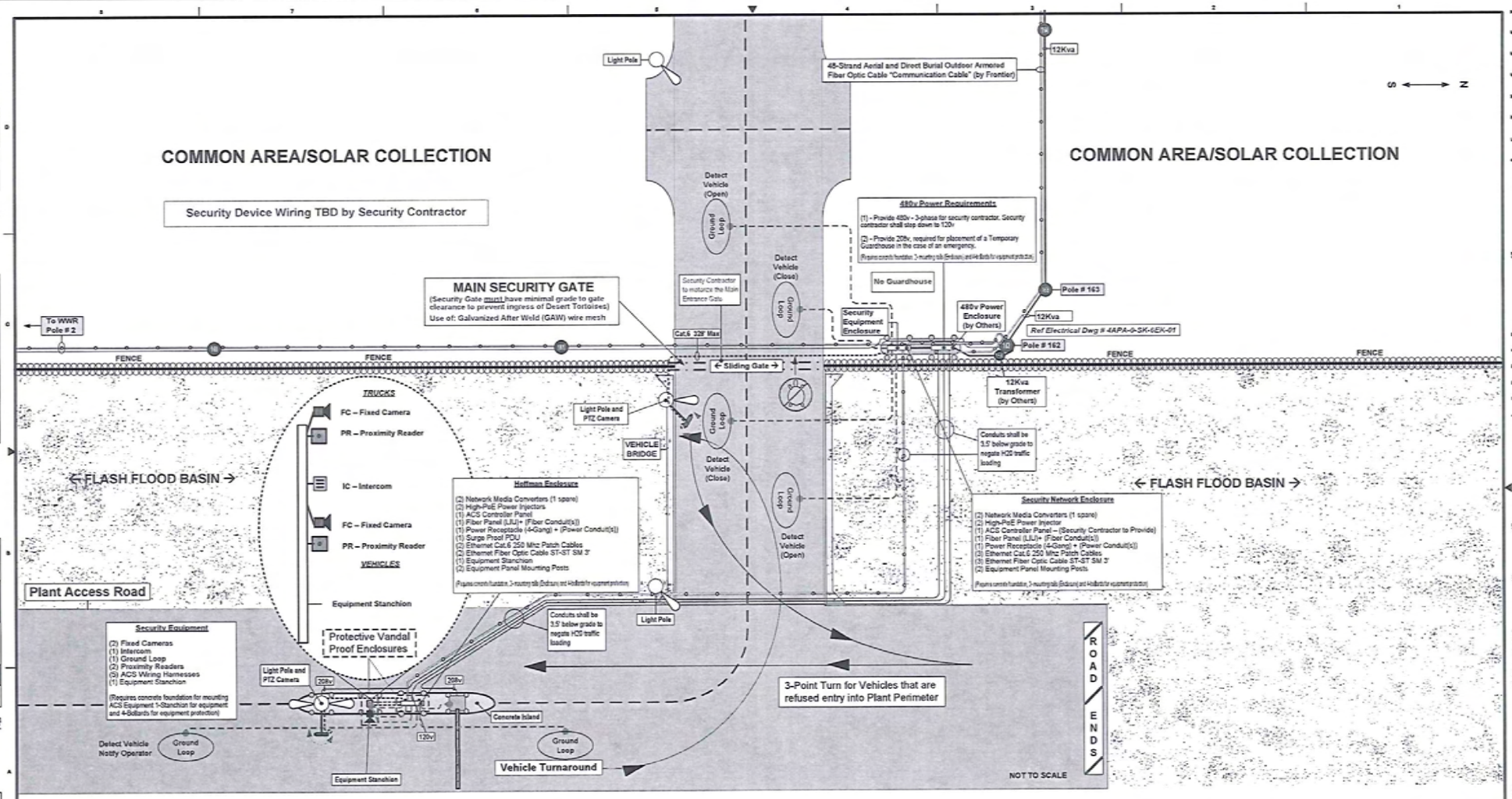
PLOT DATE:



NOT TO SCALE

NETWORK Interface Cables

- FIBER OPTIC CABLE – Field Connected Nodes (Physical Media as Noted)
- FIBER OPTIC PATCH CABLE - (Physical Media as Noted)
- CAT6 - Ethernet - (Physical Media as Noted)
- Serial Cable (Serial RS-485 1-Pair Belden # 3105A)

NOTES:

1). Vehicle Sensor Type - Ground Loop
2). Lighting Requirements TBD by Security Contractor (Entire Entrance / Gate area)
3). Vandal proofing of Network Enclosures required - (Bullet Proof)
4). Main Gate must be designed to prevent Tortoise Ingress. – (into plant boundaries)
4). All Fire Alarm panels must be integrated to the DCS by way of a serial hardwired interface (by Others) and an Ethernet broadband interface to provide a robust Alarm signaling capability.
5). Security Contractor to motorize the Main Entrance Gate.

POWER 120v 480v / 12Kva (as noted) | POWER POLE - | BOLLARD - | AREA LIGHTING POLE - | INTERCOM (IC) - | FIXED CAM (FC) - | PROXIMITY READER (PR) - | PTZ CAM (PTZ) -

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CEO | PROJECT MANAGER

FLUOR.

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DESIGNED BY	G.MACK	
DRAFTED BY	MICHAEL J. MESSERSCHMITT	
SUPERVISOR	W.D.BECKHAM	APP DATE 01/25/2012
LEAD ENGINEER	B.CONCEPCION	APP DATE 01/25/2012
PLANNER	A.PINTO	APP DATE 01/25/2012
CLIENT		APP DATE

Genesis Solar Energy Project

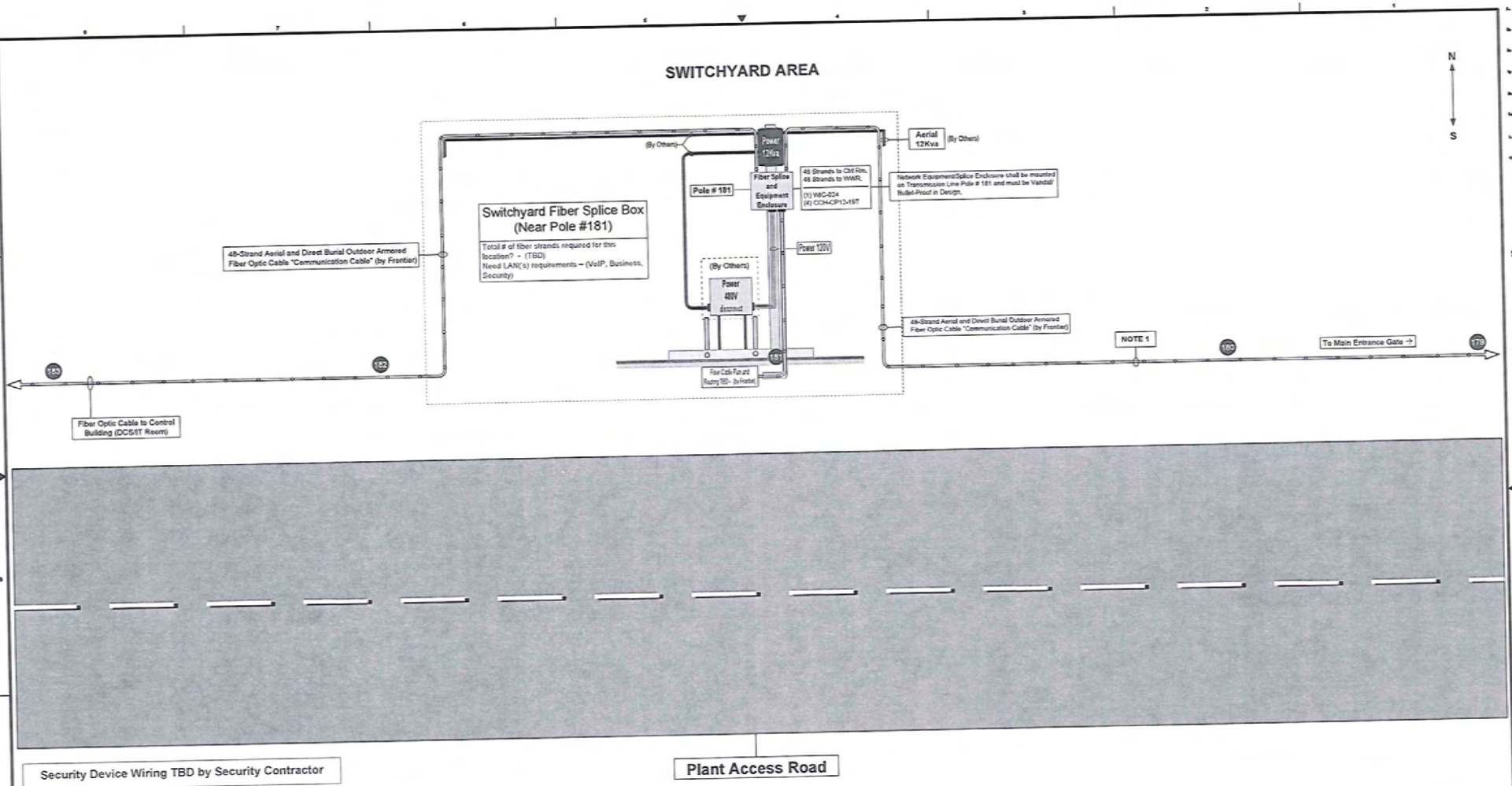
Riverside County, California

FIBER OPTIC CABLE REQUIREMENTS
MAIN GATE PLANT ENTRANCE - CCTV AND ACS - POLE # 162
CONTROL SYSTEM

SCALE: NONE | DRAWING NAME: PRELIMINARY | REV: 0

CAD FILE NAME: A4PADSR7000002.DWG

PLOT DATE:



POWER 120v 480v / 12Kva (as noted)

POWER POLE - ●

BOLLARD - ○

NETWORK Interface Cables:

- FIBER OPTIC CABLE – Field Connected Nodes (Physical Media as Noted)
- FIBER OPTIC PATCH CABLE - (Physical Media as Noted)
- CAT6 - Ethernet - (Physical Media as Noted)
- Serial Cable (Serial RS-485 1-Pair Belden # 2105A)

NOTES:

1). Communication Cable - (Supports access to the Public Network, provides voice and data communications to the Genesis Plant)

NOT TO SCALE

REV	DATE	REVISION DESCRIPTION	BY	CHK	APPV	REFERENCE DWG NUMBER	REFERENCE DRAWINGS
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DESIGNED BY G.MACK	
CHECKED BY MICHAEL J. MESSERSCHMITT	
SUPERVISOR W.D.BECKHAM	APP DATE 01/23/2012
LEAD ELECTRICAL B.CONCEPCION	APP DATE 01/23/2012
FLUOR A.PINTO	APP DATE 01/23/2012
CLIENT	APP DATE

Genesis Solar Energy Project

Riverside County, California

SECURITY NETWORK REQUIREMENTS
SWITCHYARD FIBER EQUIP/SPLICE CABINET - POLE # 181
CONTROL SYSTEM

SCALE: NONE

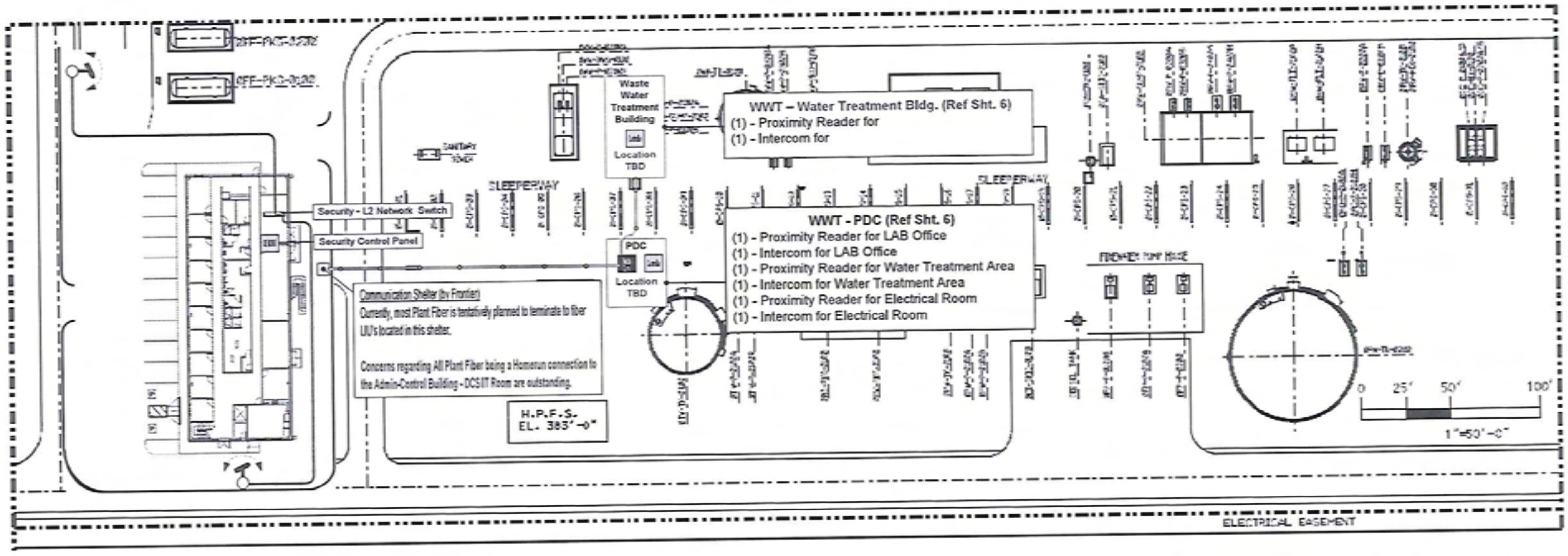
DRAWING NUMBER: PRELIMINARY

REV: 0

CAD FILE NAME: A4PADSR7000002.DWG

PLOT DATE

Final Design for Common Area may result in additional security scope - TBD



Security Device Wiring TBD by Security Contractor

NOTES:

1). Camera shown for placement purposes only and does not represent the final model selection or design configuration.

NETWORK Interface Cables

- FIBER OPTIC CABLE – Field Connected Nodes (Physical Media as Noted)
- FIBER OPTIC PATCH CABLE - (Physical Media as Noted)
- CAT6 - Ethernet - (Physical Media as Noted)
- Serial Cable (Serial RS-485 3-Pair Belden # 3105A)

BOLLARD - ○ | AREA LIGHTING POLE - ○ | PTZ CAM (PTZ) - | Security Control Panel Requires 110 VAC -

NOT TO SCALE

REV	DATE	REVISION DESCRIPTION	BY	CHK	APPV	REFERENCE DWG NUMBER	REFERENCE DRAWINGS
0	01/25/12	ISSUED FOR REVIEW			BC		

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PLUS/DESIGN REVIEWER

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PLANT A.PINTO	APP DATE 01/25/2012		
CLIENT	APP DATE		

Genesis Solar Energy Project

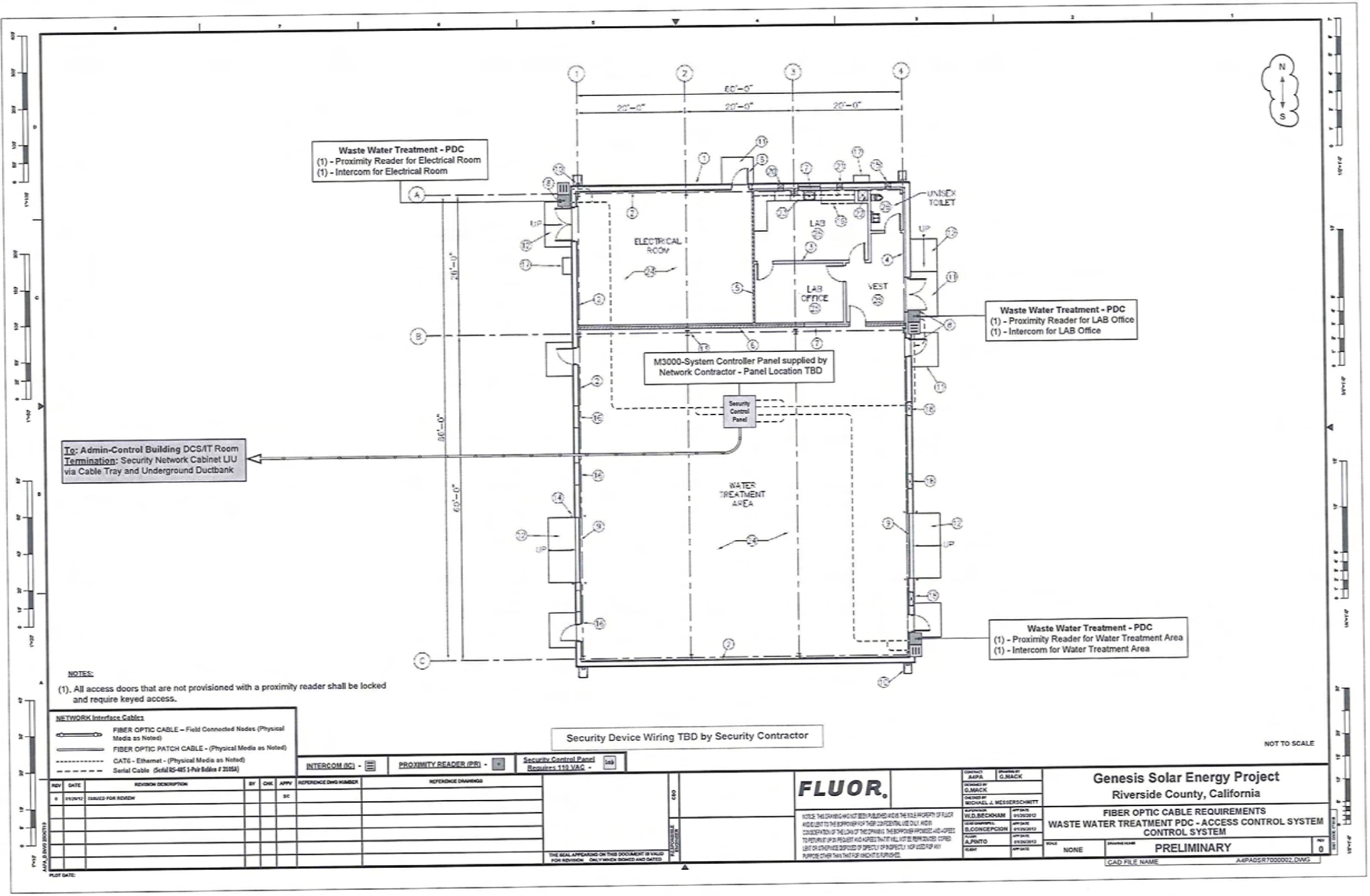
Riverside County, California

FIBER OPTIC CABLE REQUIREMENTS
CONTROL ROOM - SURVEILLANCE / ACCESS CONTROL SYSTEM
CONTROL SYSTEM

SCALE: NONE | DRAWING NAME: PRELIMINARY | REV: 0

CAD FILE NAME: A4PAOSR7000002.DWG

PLOT DATE:



Waste Water Treatment - PDC
(1) - Proximity Reader for Electrical Room
(1) - Intercom for Electrical Room
60'-0"
20'-0"
20'-0"
20'-0"
ELECTRICAL ROOM
LAB
LAB OFFICE
VEST
UNISEX TOILET
UP
Waste Water Treatment - PDC
(1) - Proximity Reader for LAB Office
(1) - Intercom for LAB Office
M3000-System Controller Panel supplied by Network Contractor - Panel Location TBD
Security Control Panel
To: Admin-Control Building DCS/IT Room
Termination: Security Network Cabinet LIU via Cable Tray and Underground Ductbank
WATER TREATMENT AREA
Waste Water Treatment - PDC
(1) - Proximity Reader for Water Treatment Area
(1) - Intercom for Water Treatment Area
NOTES:
(1). All access doors that are not provisioned with a proximity reader shall be locked and require keyed access.
NETWORK Interface Cables
FIBER OPTIC CABLE – Field Connected Nodes (Physical Media as Noted)
FIBER OPTIC PATCH CABLE - (Physical Media as Noted)
CAT6 - Ethernet - (Physical Media as Noted)
Serial Cable (Serial RS-485 1-Pair Belden # 3105A)
Security Device Wiring TBD by Security Contractor
INTERCOM (IC) -
PROXIMITY READER (PR) -
Security Control Panel Requires 110 VAC -
NOT TO SCALE
REV
DATE
REVISION DESCRIPTION
BY
CHK
APPV
REFERENCE DWG NUMBER
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CONTRACT A4PA
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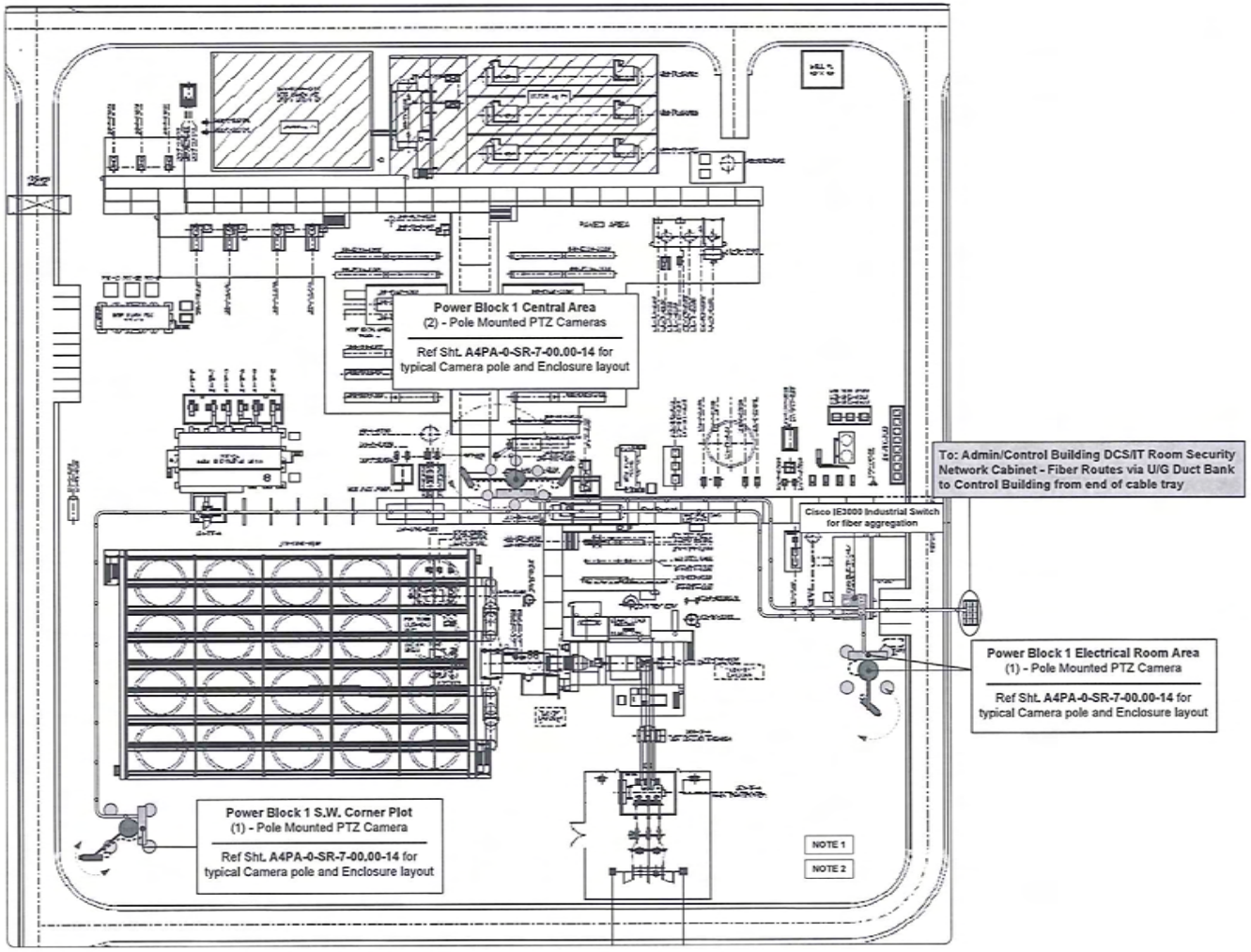
W.D.BECKHAM
B.CONCEPCION
A.PINTO
Genesis Solar Energy Project
Riverside County, California
FIBER OPTIC CABLE REQUIREMENTS
WASTE WATER TREATMENT PDC - ACCESS CONTROL SYSTEM
CONTROL SYSTEM
SCALE NONE
PRELIMINARY
REV 0
CAD FILE NAME A4PA0SR7000002.DWG
PLOT DATE:

Camera Specifications - (AXIS Q6032-C)

http://www.axis.com/corporate/press/press_material.htm?key=q6032c



Security Device Wiring TBD by Security Contractor

NOT TO SCALE

NOTES:

(1). Power Block 1 and Power Block 2 shall be provisioned using PTZ Dome Network Cameras with integrated active cooling and reliable video surveillance designed for desert environments. The high-speed pan/tilt/zoom camera shall support powerful zoom and HDTV resolution of 1080p, operate in heat up to 167 °F with the ability to withstand sandstorms and conform to military standard, MIL-STD-810G. The Cameras shall support advanced climate control system and handle rapid temperature changes to eliminate condensation. The IP66 and NEMA 4X-rated camera is dust and waterproof, supports day and night functionality, wide dynamic range, H.264, automatic guard tour, alarm management and auto-tracking.

(2). Ref. Sht. A4PA-0-SR-7-00.00-14 for typical Camera Pole and Enclosure layout

NETWORK Interface Cables

- FIBER OPTIC CABLE – Field Connected Nodes (Physical Media as Noted)
- FIBER OPTIC PATCH CABLE - (Physical Media as Noted)
- CAT6 - Ethernet - (Physical Media as Noted)
- Serial Cable (Serial RS-485 1-Pair Belden # 3105A)

PTZ CAM (PTZ) - | BOLLARD - | SECURITY CAMERA POLE -

REV	DATE	REVISION DESCRIPTION	BY	CHK	APPV	REFERENCE DWG NUMBER	REFERENCE DRAWINGS
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SUPERVISOR W.D.BECKHAM	APP DATE 01/26/2012
LEAD SUPERVISOR B.CONCEPCION	APP DATE 01/26/2012
FLUOR A.PINTO	APP DATE 01/26/2012
CLIENT	APP DATE

Genesis Solar Energy Project
Riverside County, California

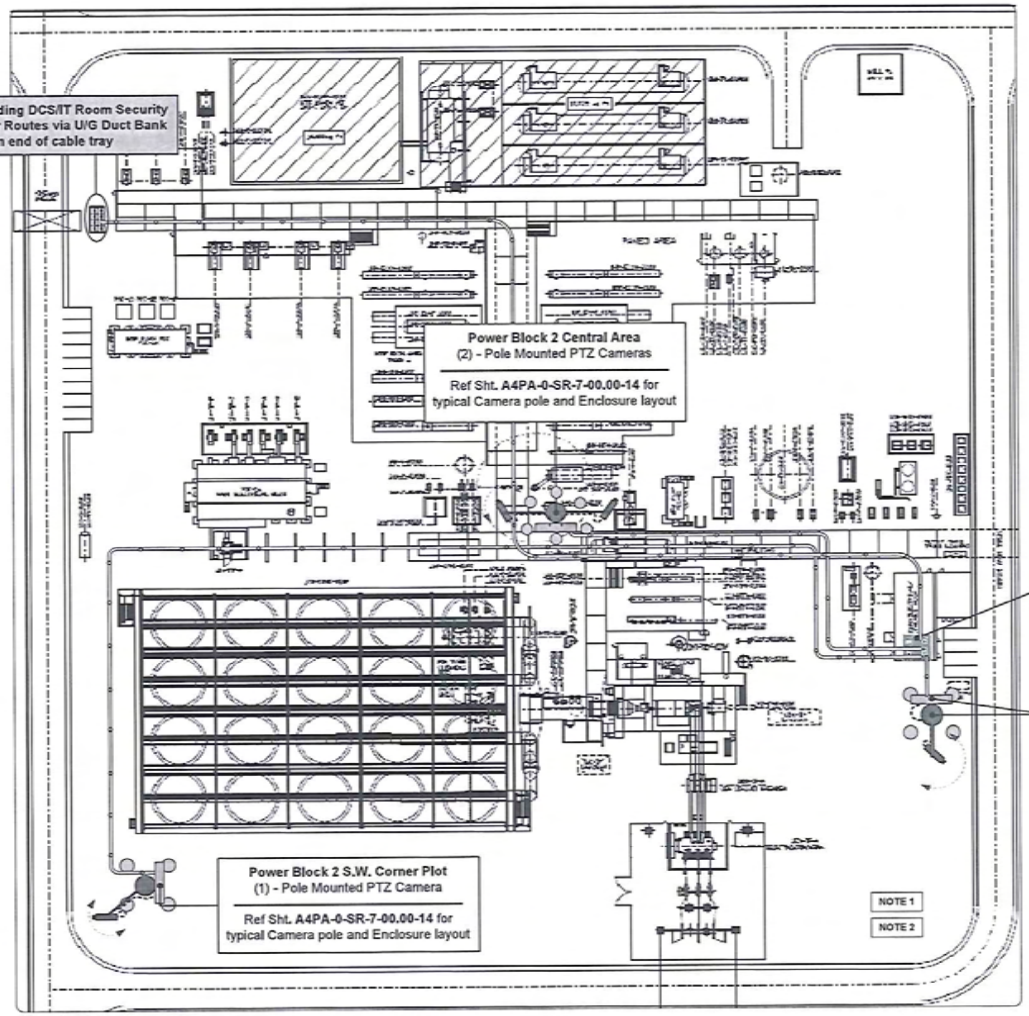
FIBER OPTIC CABLE REQUIREMENTS
POWER BLOCK UNIT # 1 - CCTV SYSTEM
CONTROL SYSTEM

SCALE NONE | DRAWING NUMBER PRELIMINARY | REV 0

CAD FILE NAME A4PA0SR7000002.DWG

PLOT DATE:

To: Admin/Control Building DCS/IT Room Security Network Cabinet - Fiber Routes via U/G Duct Bank to Control Building from end of cable tray



Axis Q6032-C PTZ Surveillance Camera

Camera Specifications - (AXIS Q6032-C)

http://www.axis.com/corporate/press/press_material.htm?key=q6032c

NOTES:

(1). Power Block 1 and Power Block 2 shall be provisioned using PTZ Dome Network Cameras with integrated active cooling and reliable video surveillance designed for desert environments. The high-speed pan/tilt/zoom camera shall support powerful zoom and HDTV resolution of 1080p, operate in heat up to 167 °F with the ability to withstand sandstorms and conform to military standard, MIL-STD-810G. The Cameras shall support advanced climate control system and handle rapid temperature changes to eliminate condensation. The IP66 and NEMA 4X-rated camera is dust and waterproof, supports day and night functionality, wide dynamic range, H.264, automatic guard tour, alarm management and auto-tracking.

(2). Ref. Sht. A4PA-0-SR-7-00.00-14 for typical Camera Pole and Enclosure layout

NETWORK Interface Cables

- FIBER OPTIC CABLE – Field Connected Nodes (Physical Media as Noted)
- FIBER OPTIC PATCH CABLE - (Physical Media as Noted)
- CAT6 - Ethernet - (Physical Media as Noted)
- Serial Cable (Serial RS-485 1-Pair Belden # 3105A)

PTZ CAM (PTZ) - | BOLLARD - | SECURITY CAMERA POLE -

Security Device Wiring TBD by Security Contractor

NOT TO SCALE

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DRAWN BY	G.MACK		
CHECKED BY	MICHAEL J. MESSERSCHMITT		
SUPERVISOR	W.D.BECKHAM	APP DATE	01/26/2013
LEAD ENGINEER	B.CONCEPCION	APP DATE	01/26/2013
PLANT	A.PINTO	APP DATE	01/26/2013
CLIENT		APP DATE	

Genesis Solar Energy Project
Riverside County, California

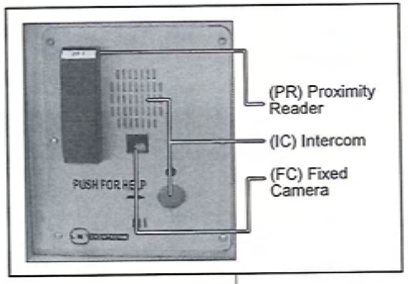
FIBER OPTIC CABLE REQUIREMENTS
POWER BLOCK UNIT # 2 - CCTV SYSTEM
CONTROL SYSTEM

SCALE: NONE | DRAWING NAME: PRELIMINARY | REV 0

CAD FILE NAME: A4PA0SR7000002.DWG

PLOT DATE:

An email was sent to Fluor Mat Naraghi who indicated that the ELEC ROOM BATT ROOM door is not in his scope, This email was forwarded to Matt McCord 1/10/12 per his request so that he could pursue the option of having it included. (Proximity Reader to remain on outside until further notification from Matt McCord) 1/11/12



Keyed Lock

Admin-Control Room – First Floor
(1) - PR (1), - MRJ, 1 - (REX) for Battery Room Access

NOTE: If door connecting both rooms Proximity reader not required (Architectural)

Keyed Lock | Keyed Lock

Admin-Control Room – First Floor
(1) - PR, (1) - MRJ, (1) - REX for DCS/IT Room Access

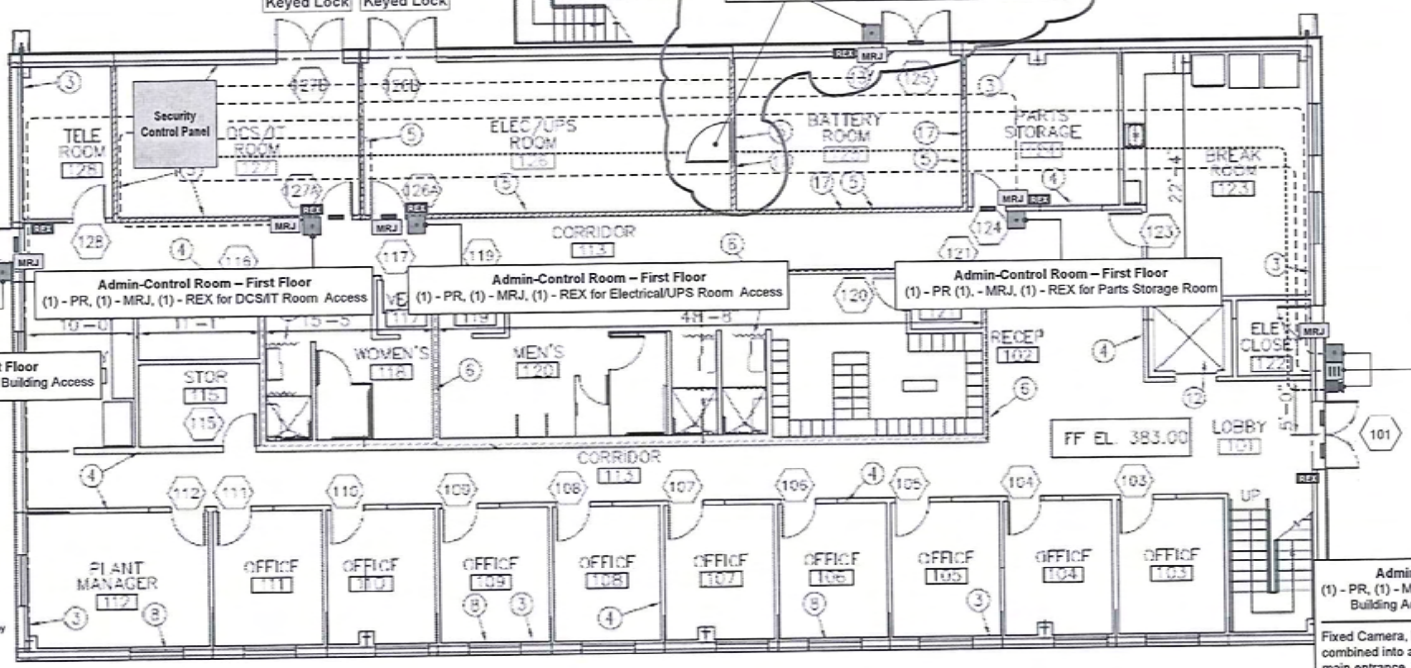
Admin-Control Room – First Floor
(1) - PR, (1) - MRJ, (1) - REX for Electrical/UPS Room Access

Admin-Control Room – First Floor
(1) - PR (1), - MRJ, (1) - REX for Parts Storage Room

Admin-Control Room - First Floor
(1) - PR, (1) - MRJ, (1) - REX for North Building Access

Admin-Control Room – First Floor
(1) - PR, (1) - MRJ, (1) - IC, (1) - FC for Main/South Building Access

Fixed Camera, Intercom and Proximity Reader shall be combined into a single enclosure and placed at the main entrance. This will provide identity management, security badge identification and voice communication requirements for building access.



Security Device Wiring TBD by Security Contractor

NOTES:

(1). Use only Card Readers for Central Control Building (CCB) access to the following locations: 1st Floor - North/Patio Entrance '113', South/Lobby Entrance '101', Parts Storage '124',Observation Deck Entrance '125', Electrical/UPS Room '126', DCS/IT Room '127'

(2). All access doors that are not provisioned with a proximity reader shall be locked and require keyed access.

NETWORK Interface Cables
- FIBER OPTIC CABLE – Field Connected Nodes (Physical Media as Noted)
- FIBER OPTIC PATCH CABLE - (Physical Media as Noted)
- CAT6 - Ethernet - (Physical Media as Noted)
- Serial Cable (Serial RS-485 1-Pair Belden # 3105A)

INTERCOM (IC) - | FIXED CAM (FC) - | PROXIMITY READER (PR) - | Security Control Panel Requires 110 VAC -

Electric/Magnetic Door Locks. Door Contacts and or Remote Relays as required by Security Contractor

MRJ - Micro/Reader Junction Box (MRJ) Centralized wiring panel for Readers and Door Locks. Requires 110 VAC

REX - Request to Exit (REX). Push Button Relay for requests to exit.

NOT TO SCALE

RDV	DATE	REVISION DESCRIPTION	BY	CHK	APPV	REFERENCE DWG NUMBER
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DESIGNED BY G.MACK
CHECKED BY MICHAEL J. MESSERSCHMITT
SUPERVISOR W.D.BECKHAM | APP DATE 01/20/2012
LEAD DRAFTER B.CONCEPCION | APP DATE 01/20/2012
FLOOR A.PINTO | APP DATE 01/20/2012
CLIENT | APP DATE

Genesis Solar Energy Project

Riverside County, California

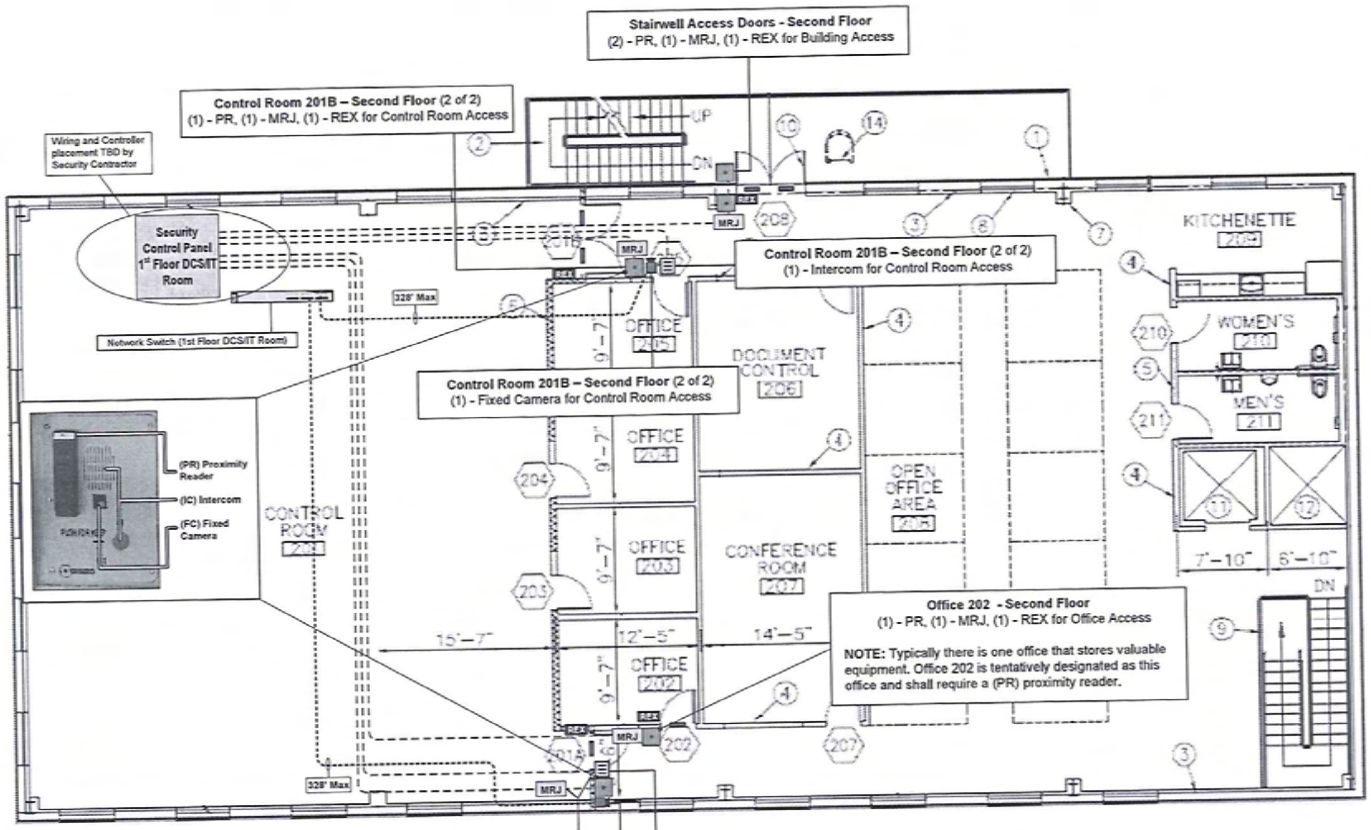
FIBER OPTIC CABLE REQUIREMENTS
CONTROL ROOM 1st FLOOR - ACCESS CONTROL SYSTEM (ACS) CONTROL SYSTEM

SCALE: NONE | DRAWING NUMBER: A4PA-0-SR-7-00.00-09 | REV: 0

CAD FILE: SR7000002.DWG

PRELIMINARY

PLOT DATE:



NOTES:

(1). Use only Card Readers for Central Control Building (CCB) access to the following locations: Control Room Entrance - 201B and 201A, Stairwell Access Door - 208, Office - 202

(2). All Doors that are not provisioned with a Proximity Reader shall be locked and require keyed access

NOT TO SCALE

NETWORK Interface Cables

- FIBER OPTIC CABLE – Field Connected Nodes (Physical Media as Noted)
- FIBER OPTIC PATCH CABLE - (Physical Media as Noted)
- CAT6 - Ethernet - (Physical Media as Noted)
- Serial Cable (Serial RS-485 1-Pair Belden # 3105A)

Security Device Wiring TBD by Security Contractor

INTERCOM (IC) - | FIXED CAM (FC) - | PROXIMITY READER (PR) - | Security Control Panel Requires 110 VAC -

Electric/Magnetic Door Locks: Door Contacts and or Remote Relays as required by Security Contractor

MRJ - Micro/Reader Junction Box (MRJ): Centralized wiring panel for Readers and Door Locks. Requires 110 VAC

REX - Request to Exit (REX): Push Button Relay for requests to exit.

REV	DATE	REVISION DESCRIPTION	BY	CHK	APPV	REFERENCE DWG NUMBER	REFERENCE DRAWINGS
0	03/20/12	ISSUED FOR REVIEW			SC		

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DESIGNED BY: G.MACK
ENGINEER: MICHAEL J. MESSERSCHMITT
SUPERVISOR: W.D.BECKHAM | APP DATE: 03/20/2012
LEAD DISCIPLINE: B.CONCEPCION | APP DATE: 03/20/2012
FLOR: A.PINTO | APP DATE: 03/20/2012
CLIENT: | APP DATE:

Genesis Solar Energy Project

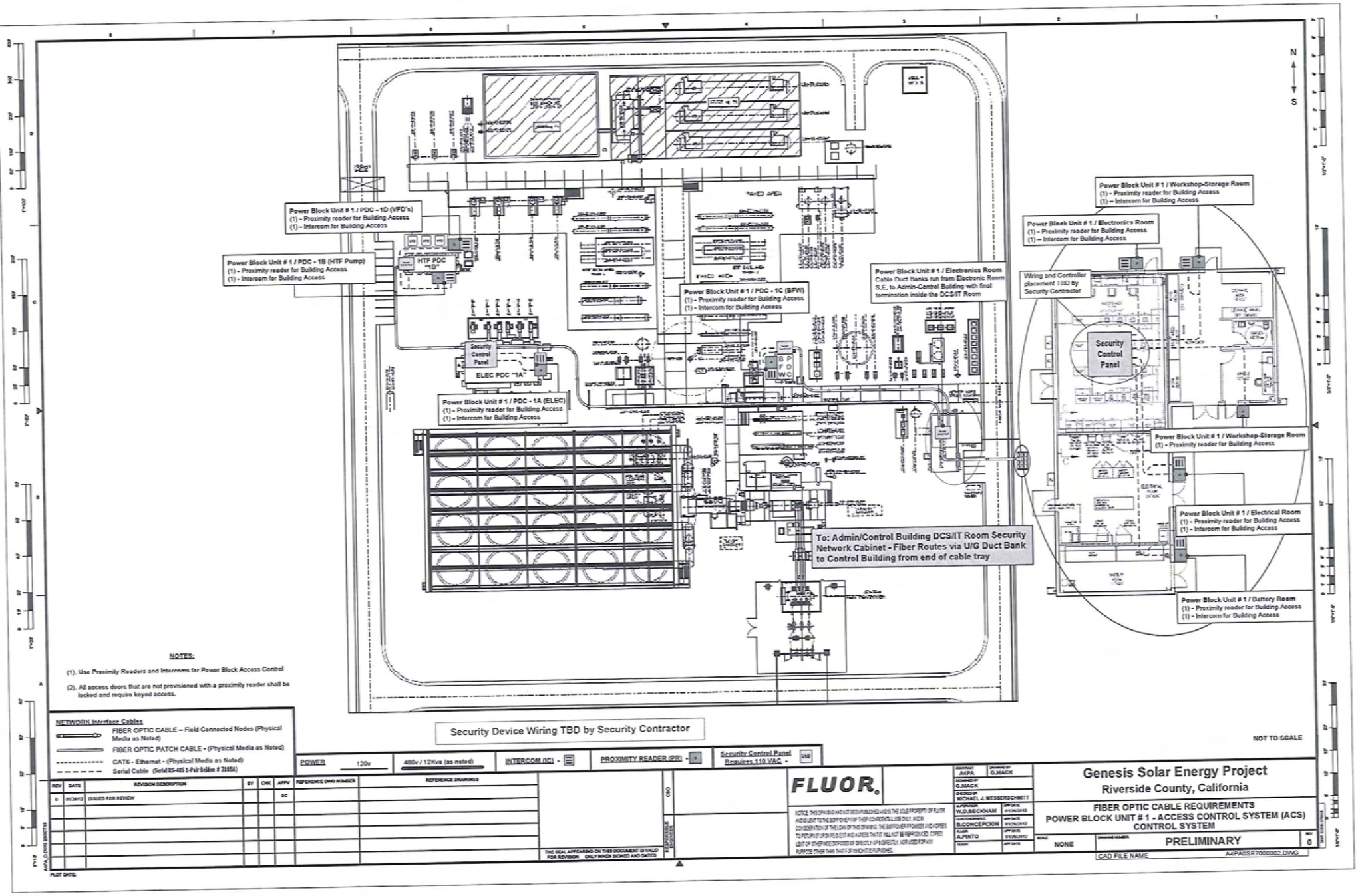
Riverside County, California

FIBER OPTIC CABLE REQUIREMENTS
CONTROL ROOM 2nd FLOOR - ACCESS CONTROL SYSTEM (ACS)
CONTROL SYSTEM

SCALE: NONE | DRAWING NUMBER: PRELIMINARY | REV: 0

CAD FILE NAME: AAPAGSR7000002.DWG

PLOT DATE:



NOTES:

(1). Use Proximity Readers and Intercoms for Power Block Access Control

(2). All access doors that are not provisioned with a proximity reader shall be locked and require keyed access.

Security Device Wiring TBD by Security Contractor

NOT TO SCALE

NETWORK Interface Cables

- FIBER OPTIC CABLE – Field Connected Nodes (Physical Media as Noted)
- FIBER OPTIC PATCH CABLE - (Physical Media as Noted)
- CAT6 - Ethernet - (Physical Media as Noted)
- Serial Cable (Serial RS-485 1-Pair Belden # 3105A)

POWER 120v | 480v / 12Kva (as noted) | INTERCOM (IC) - | PROXIMITY READER (PR) - | Security Control Panel Requires 110 VAC -

REV	DATE	REVISION DESCRIPTION	BY	CHK	APPV	REFERENCE DWG NUMBER	REFERENCE DRAWINGS
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RESPONSIBLE ENGINEER

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CHECKED BY MICHAEL J. MESSERSCHMITT	
SUPERVISOR W.D.BECKHAM	APP DATE 01/26/2012
LEAD ENGINEER B.CONCEPCION	APP DATE 01/26/2012
FLUOR A.PINTO	APP DATE 01/26/2012
CLIENT	APP DATE

Genesis Solar Energy Project

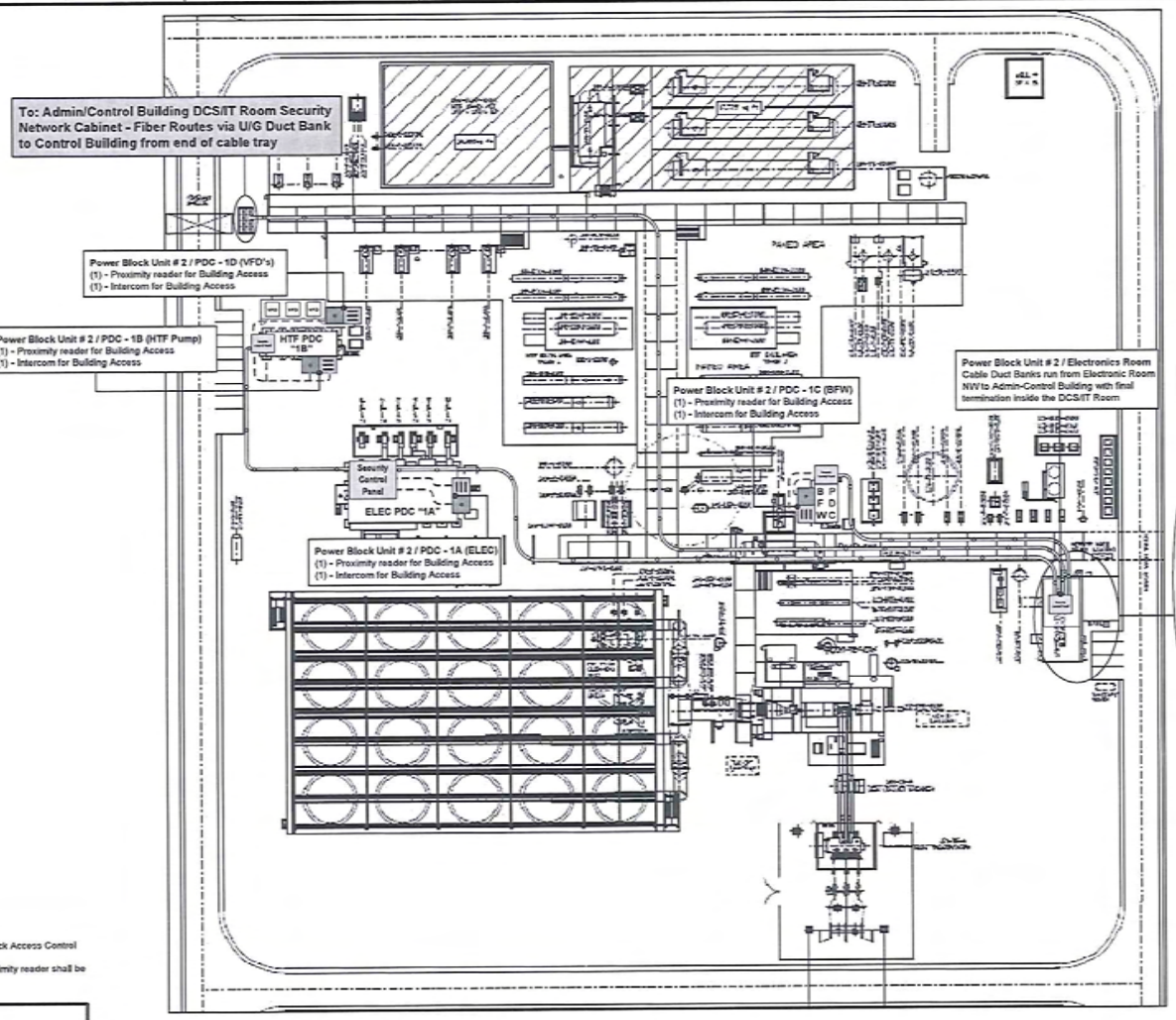
Riverside County, California

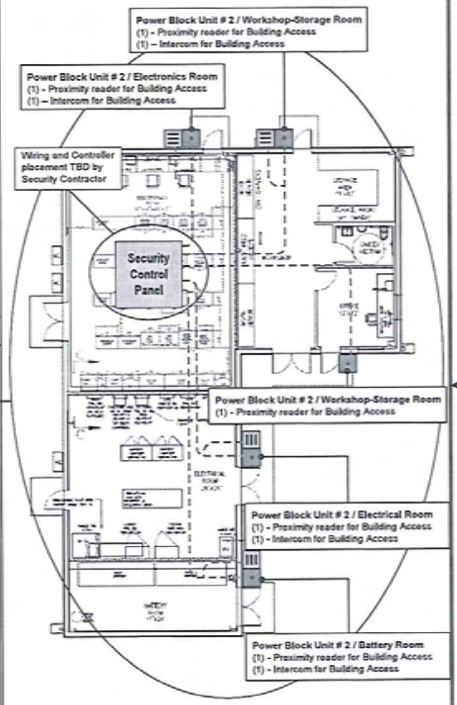
FIBER OPTIC CABLE REQUIREMENTS
POWER BLOCK UNIT # 1 - ACCESS CONTROL SYSTEM (ACS)
CONTROL SYSTEM

SCALE NONE | DRAWING NUMBER PRELIMINARY | REV 0

CAD FILE NAME A4PAGSR7000002.DWG

PLOT DATE:





NOTES:

(1). Use Proximity Readers and Intercoms for Power Block Access Control

(2). All access doors that are not provisioned with a proximity reader shall be locked and require keyed access.

Security Device Wiring TBD by Security Contractor

NOT TO SCALE

NETWORK Interface Cables

- FIBER OPTIC CABLE – Field Connected Nodes (Physical Media as Noted)
- FIBER OPTIC PATCH CABLE - (Physical Media as Noted)
- CAT6 - Ethernet - (Physical Media as Noted)
- Serial Cable (Serial RS-485 1-Pair Belden # 3105A)

INTERCOM (IC) - PROXIMITY READER (PR) - Security Control Panel Requires 110 VAC -

REV	DATE	REVISION DESCRIPTION	BY	CHK	APPV	REFERENCE DWG NUMBER	REFERENCE DRAWINGS
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DESIGNED BY: G.MACK
CHECKED BY: MICHAEL J. MESSERSCHMITT
SUPERVISOR: W.D.BECKHAM APP DATE: 01/26/2012
LEAD GRAPHIC: B.CONCEPCION APP DATE: 01/26/2012
FLUOR: A.PINTO APP DATE: 01/26/2012
CLIENT: APP DATE:

Genesis Solar Energy Project

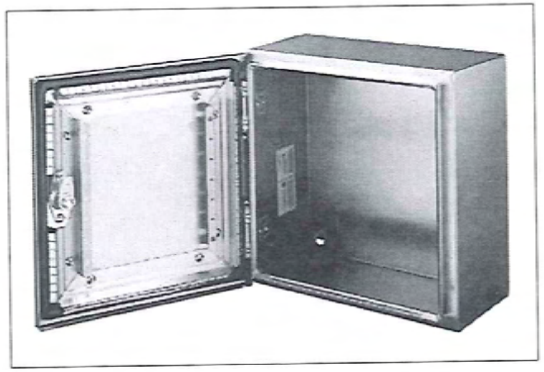
Riverside County, California

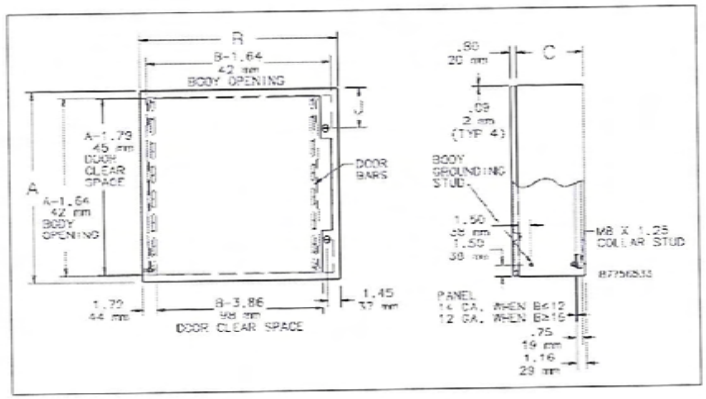
FIBER OPTIC CABLE REQUIREMENTS
POWER BLOCK UNIT # 2 - ACCESS CONTROL SYSTEM (ACS)
CONTROL SYSTEM

SCALE: NONE | DRAWING NUMBER: PRELIMINARY | REV: 0

CAD FILE NAME: A4PADSR7000002.DWG

PLOT DATE:





Catalog Number	AxBxC in./mm	Door Gauge	Body Gauge	Panel	Conductive Panel Catalog Number	Panel Size D x E in./mm	Mounting G x H in./mm	Latches Qty.	J in./mm
CSD362412EMCSS	36.00 x 24.00 x 12.00 914 x 610 x 305	14	16	CP3624	CP3624G	34.20 x 22.20 869 x 564	34.50 x 22.50 876 x 572	2	5.00 127

NOTES:

(1). Due to extreme environmental conditions it is imperative that all equipment installed in a field mounted enclosure is fully capable of withstanding temps in excess of 140°.

(2). All outdoor Enclosures shall be provisioned with sun shields

NETWORK Interface Cables

- FIBER OPTIC CABLE – Field Connected Nodes (Physical Media as Noted)
- FIBER OPTIC PATCH CABLE - (Physical Media as Noted)
- CAT6 - Ethernet - (Physical Media as Noted)
- Serial Cable (Serial RS-485 1-Pair Belden # 3105A)

Security Device Wiring TBD by Security Contractor

NOT TO SCALE

REV	DATE	REVISION DESCRIPTION	BY	CHK	APPV	REFERENCE DWG NUMBER	REFERENCE DRAWINGS
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CBO

RESPONSIBLE ENGINEER

FLUOR.

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CONTRACT: A4PA	DRAWING BY: G.MACK
DESIGNED BY: G.MACK	
CHECKED BY: MICHAEL J. MESSERSCHMITT	
SUPERVISOR: W.D.BECKHAM	APP DATE: 01/26/2012
LEAD ENGINEER: B.CONCEPCION	APP DATE: 01/26/2012
FLUOR: A.PINTO	APP DATE: 01/26/2012
CLIENT	APP DATE

Genesis Solar Energy Project

Riverside County, California

FIBER OPTIC CABLE REQUIREMENTS
FIELD SURVEILLANCE CAMERA EQUIPMENT CABINETS
CONTROL SYSTEM

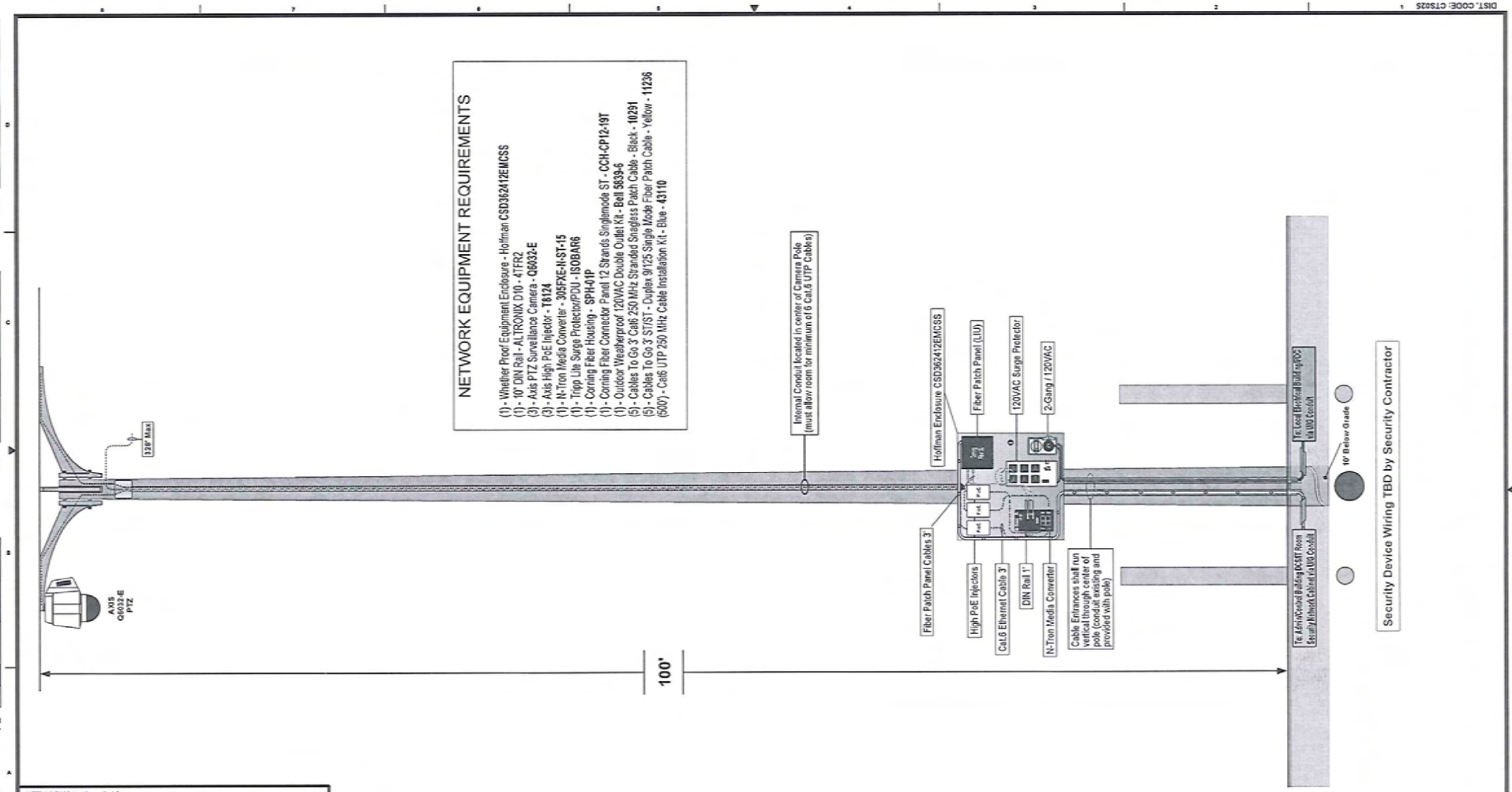
SCALE: NONE

DRAWING NAME: PRELIMINARY

REV: 0

CAD FILE NAME: A4PA0SR7000002.DWG

PLOT DATE:


NETWORK EQUIPMENT REQUIREMENTS
(1) - Whether Proof Equipment Enclosure - Hoffman CSD362412EMCSS
(1) - 10" DIN Rail - ALTRONIX D10 - 4TFR2
(3) - Axis PTZ Surveillance Camera - Q6032-E
(3) - Axis High PoE Injector - T8124
(1) - N-Tron Media Converter - 305FXE-N-ST-15
(1) - Tripp Lite Surge Protector/PDU - ISOBAR6
(1) - Corning Fiber Housing - SPH-01P
(1) - Corning Fiber Connector Panel 12 Strands Singlemode ST - CCH-CP12-19T
(1) - Outdoor Weatherproof 120VAC Double Outlet Kit - Bell 5839-6
(5) - Cables To Go 3' Cat6 250 MHz Stranded Snagless Patch Cable - Black - 10291
(5) - Cables To Go 3' ST/ST - Duplex 9/125 Single Mode Fiber Patch Cable - Yellow - 11236
(500') - Cat6 UTP 250 MHz Cable Installation Kit - Blue - 43110
Internal Conduit located in center of Camera Pole (must allow room for minimum of 6 Cat.6 UTP Cables)
Hoffman Enclosure CSD362412EMCSS
Fiber Patch Panel (LIU)
120VAC Surge Protector
2-Gang / 120VAC
328' Max
AXIS Q6032-E PTZ
Fiber Patch Panel Cables 3'
High PoE Injectors
Cat.6 Ethernet Cable 3'
DIN Rail 1'
N-Tron Media Converter
Cable Entrances shall run vertical through center of pole (conduit existing and provided with pole)
To Local Electrical Building PCS/IT Room via UG Conduit
To AdvisNexus Building PCS/IT Room Security Network Cabinet via UG Conduit
10' Below Grade
Security Device Wiring TBD by Security Contractor
100'
NOT TO SCALE
NETWORK Interface Cables
FIBER OPTIC CABLE – Field Connected Nodes (Physical Media as Noted)
FIBER OPTIC PATCH CABLE - (Physical Media as Noted)
CAT6 - Ethernet - (Physical Media as Noted)
Serial Cable / Twisted Pair - (Serial RS-485 1-Pair Belden # 3105A)
POWER 120v 480v / 12Kva (as noted)
SECURITY CAMERA POLE -
BOLLARD -
REV DATE REVISION DESCRIPTION BY CHK APPV REFERENCE DWG NUMBER REFERENCE DRAWINGS
0 05/25/12 ISSUED FOR APPROVAL
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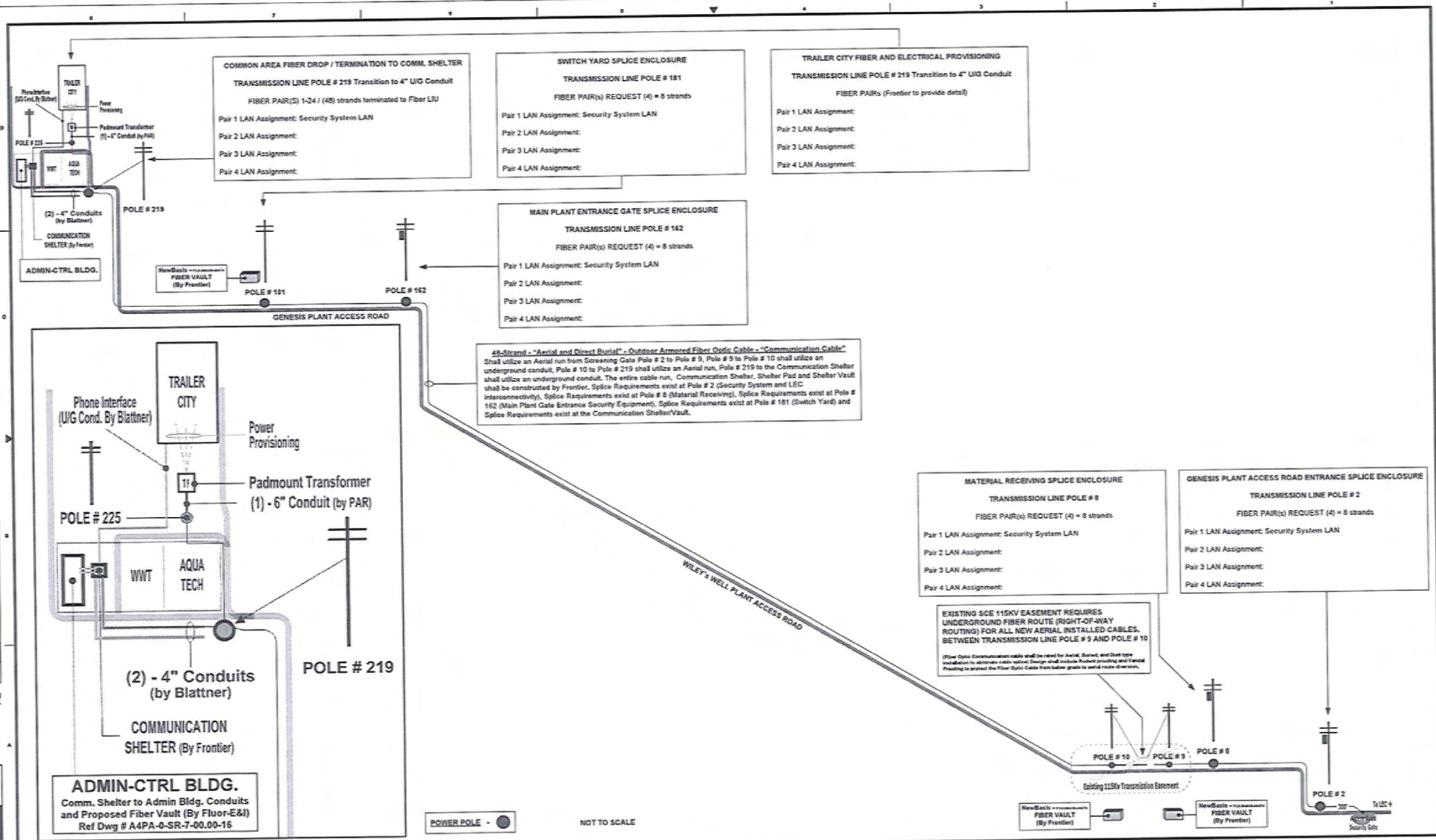
CONTRACT J.AFA
DRAWN BY G.MACK
DESIGNED BY G.MACK
CHECKED BY MICHAEL J. WESSERSCHMITT
SUPERVISOR W.D.BECKHAM 05/25/2012
QUALIFIED PROFESSIONAL B.CONCEPCION 05/25/2012
PLANNER A.PINTO 05/25/2012
CLIENT
Genesis Solar Energy Project
Riverside County, California
FIBER OPTIC CABLE REQUIREMENTS
TYPICAL CCTV CAMERA MOUNTING POLE
CONTROL SYSTEM
SCALE NONE
PRELIMINARY
REV 0
CAD FILE NAME AAPADSR7000002.DWG
PLOT DATE:
DIST. CODE: CT5025



REV	DATE	REVISION DESCRIPTION	BY	CHK	APPV	REFERENCE DWG NUMBER	REFERENCE DRAWINGS
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CEO

REPORTING ENGINEER

FLUOR.

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CONTRACT	A4PA	DRAWN BY	G.MACK
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SUPERVISOR	W.D.BECKHAM	APP DATE	01/25/2012
LEAD ENGINEER	B.CONCEPCION	APP DATE	01/25/2012
PLANNER	A.PINTO	APP DATE	01/25/2012
CLIENT		APP DATE	

SCALE: NONE

Genesis Solar Energy Project

Riverside County, California

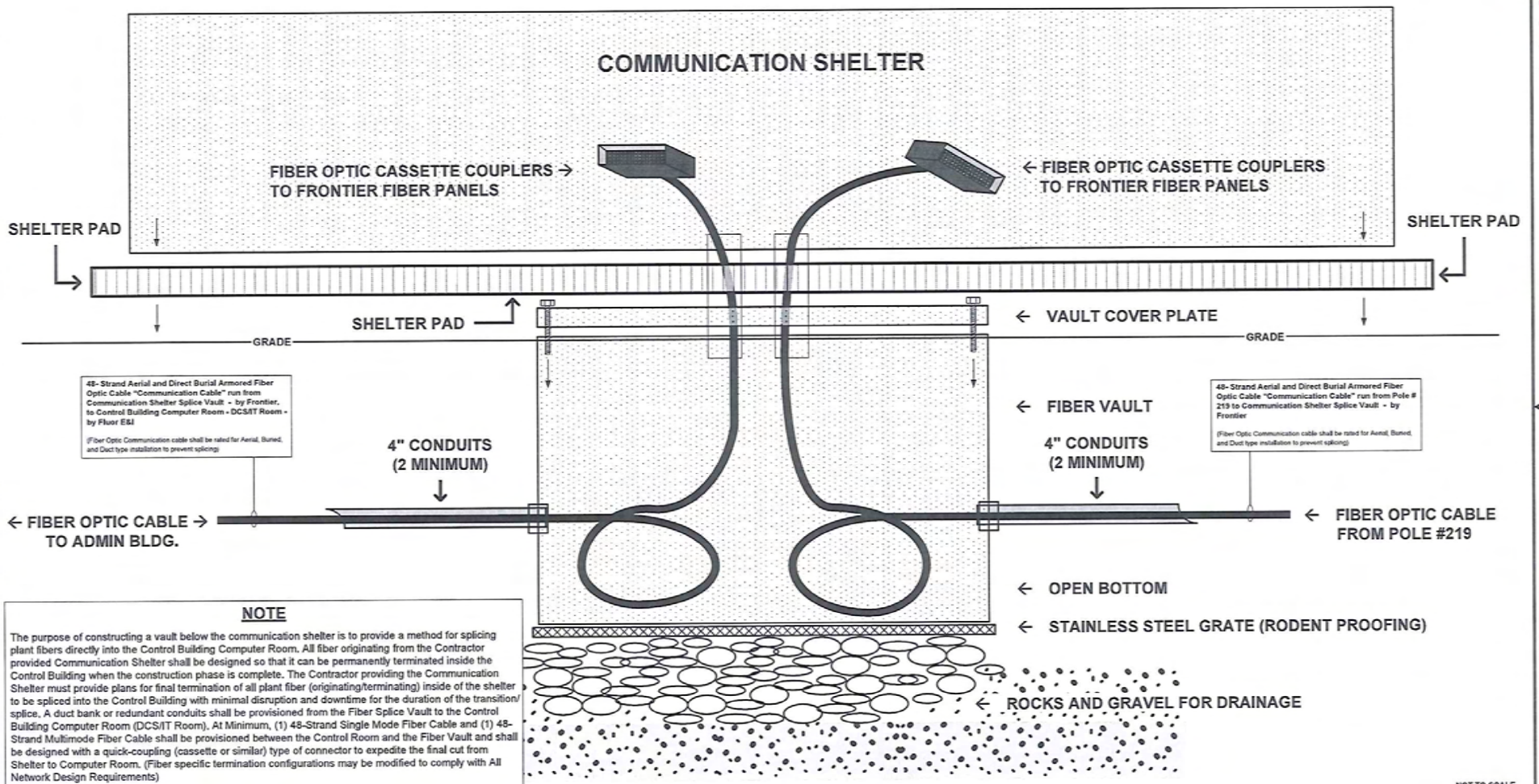
FIBER OPTIC CABLE REQUIREMENTS COMMUNICATION FIBER 24-PAIR - END TO END CONTROL SYSTEM

DRAWING NUMBER: PRELIMINARY

REV: 0

CAD FILE NAME: A4PA0SR70000002.DWG

PLOT DATE:



NOTE

The purpose of constructing a vault below the communication shelter is to provide a method for splicing plant fibers directly into the Control Building Computer Room. All fiber originating from the Contractor provided Communication Shelter shall be designed so that it can be permanently terminated inside the Control Building when the construction phase is complete. The Contractor providing the Communication Shelter must provide plans for final termination of all plant fiber (originating/terminating) inside of the shelter to be spliced into the Control Building with minimal disruption and downtime for the duration of the transition/ splice. A duct bank or redundant conduits shall be provisioned from the Fiber Splice Vault to the Control Building Computer Room (DCS/IT Room). At Minimum, (1) 48-Strand Single Mode Fiber Cable and (1) 48-Strand Multimode Fiber Cable shall be provisioned between the Control Room and the Fiber Vault and shall be designed with a quick-coupling (cassette or similar) type of connector to expedite the final cut from Shelter to Computer Room. (Fiber specific termination configurations may be modified to comply with All Network Design Requirements)

REV	DATE	REVISION DESCRIPTION	BY	CHK	APPV	REFERENCE DWG NUMBER	REFERENCE DRAWINGS
0	01/26/13	ISSUED FOR REVIEW			SC		

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CEO

PROFESSIONAL ENGINEER

FLUOR.

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DESIGNED BY	G.MACK	
CHECKED BY	MICHAEL J. MESSERSCHMITT	
SUPERVISOR	W.D.BECKHAM	APP DATE 01/26/2013
LEAD ENGINEER	B.CONCEPCION	APP DATE 01/26/2013
FLUOR	A.PINTO	APP DATE 01/26/2013
CLIENT		APP DATE

Genesis Solar Energy Project
Riverside County, California

FIBER OPTIC CABLE REQUIREMENTS
COMMUNICATION SHELTER
CONTROL SYSTEM

SCALE: NONE

DRAWING NUMBER: PRELIMINARY

REV: 0

CAD FILE NAME: A4PADSR70000002.DWG

A4PA_DSVG 20CT13

PLOT DATE:

SAMPLE CERTIFICATION (Attachment A)

Affidavit of Compliance for Project Owners

I, _____
(Name of person signing affidavit)(Title)

do hereby certify that background investigations to ascertain the accuracy of the identity and employment history of all employees of:

_____
(Company name)

for employment at:

_____
(Project name and location)

have been conducted as required by the California Energy Commission Decision for the above-named project.

_____
(Signature of Officer or Agent)

Dated this _____ day of _____, 20 _____.

THIS AFFIDAVIT OF COMPLIANCE SHALL BE APPENDED TO THE PROJECT SECURITY PLAN AND SHALL BE RETAINED AT ALL TIMES AT THE PROJECT SITE FOR REVIEW BY THE CALIFORNIA ENERGY COMMISSION COMPLIANCE PROJECT MANAGER.

SAMPLE CERTIFICATION (Attachment B)

Affidavit of Compliance for Contractors

I, _____

(Name of person signing affidavit)(Title)

do hereby certify that background investigations to ascertain the accuracy of the identity and employment history of all employees of:

_____

(Company name)

for contract work at:

_____

(Project name and location)

have been conducted as required by the California Energy Commission Decision for the above-named project.

_____

(Signature of Officer or Agent)

Dated this _____ day of _____, 20 _____.

THIS AFFIDAVIT OF COMPLIANCE SHALL BE APPENDED TO THE PROJECT SECURITY PLAN AND SHALL BE RETAINED AT ALL TIMES AT THE PROJECT SITE FOR REVIEW BY THE CALIFORNIA ENERGY COMMISSION COMPLIANCE PROJECT MANAGER.

SAMPLE CERTIFICATION (Attachment C)

Affidavit of Compliance for Hazardous Materials Transport Vendors

I,

_____

(Name of person signing affidavit)(Title)

do hereby certify that the below-named company has prepared and implemented security plans in conformity with 49 CFR 172.880 and has conducted employee background investigations in conformity with 49 CFR 172, subparts A and B:

_____

(Company name)

for hazardous materials delivery to:

_____

(Project name and location)

as required by the California Energy Commission Decision for the above-named project.

_____

(Signature of Officer or Agent)

Dated this _____ day of _____, 20 _____.

THIS AFFIDAVIT OF COMPLIANCE SHALL BE APPENDED TO THE PROJECT SECURITY PLAN AND SHALL BE RETAINED AT ALL TIMES AT THE PROJECT SITE FOR REVIEW BY THE CALIFORNIA ENERGY COMMISSION COMPLIANCE PROJECT MANAGER.

Mosley, Charlyn

From: Shirley.Bradley@fluor.com
Sent: Wednesday, April 18, 2012 8:55 AM
To: EVeerkam@energy.state.ca.us
Cc: Siegelstein, Andrew; Johnson, Ron; McCord, Matthew; Mosley, Charlyn; Field, Jennifer; Art.Pinto@fluor.com; Tommy.Pouncy@fluor.com; Sasha.Aguilera@fluor.com; Gary.Mack@fluor.com
Subject: Genesis Solar Energy Project Letter No. FAL-0045 Re: COC HAZ6 - Operations Site Security Plan
Attachments: 42260271.jpg; Genesis Letter FAL - 0045 - COC HAZ6 – Operations Site Security Plan.pdf; ATT00001.c

Mr. Veerkamp,

Attached please find Genesis Solar Energy Project Letter No. FAL-0045 Re: COC HAZ6 - Operations Site Security Plan. The original letter and two (2) copies of the Operations Site Security Plan have been Fedex to your attention today.

(See attached file: Genesis Letter FAL - 0045 - COC HAZ6 – Operations Site Security Plan.pdf)

Kind Regards,

Shirley Bradley - on behalf of Chris Jensen
Project Administrative Assistant
Genesis Solar Energy Project

Shirley Bradley | **FLUOR** |Lead Administrative Assistant for Genesis Solar Energy Project | shirley.bradley@fluor.com | IODC 30.6165 | O +1.949.349.6165 | www.fluor.com

FLUOR

FLUOR®

Fluor Enterprises, Inc.
47 Discovery, 411P
Irvine, CA 92618
USA

949-349-3342 tel
949-349-5641 fax

April 17, 2012

Genesis Solar Project
Fluor Contract No. A4PA
Letter No. FAL-0045

Mr. Eric Veerkamp
Compliance Project Manager
California Energy Commission (CEC)
1516 Ninth Street
Sacramento, CA 95814

Dear Mr. Veerkamp:

Re: Genesis Solar Energy Project (09-AFC-8)

COC HAZ6 – Operations Site Security Plan

On behalf of Genesis Solar, LLC, we are re-submitting the Operations Site Security Plan in accordance with the Condition of Certification (COC) HAZ6. Fluor received comments from the CEC on April 17, 2012 via email and has incorporated the comments into the attached revised plan.

In the attachment section of the Operations Site Security Plan are sample affidavits that will be signed prior to Commercial Operation Date (COD). The Genesis Project requests conditional approval until the affidavits are signed and submitted at a later date.

With this letter, you will also receive two (2) hard copies of the plans. Please contact Tom Pouncy 949-349-4850 for any questions.

Thank you.

Sincerely,

Chris Jensen
Project Manager
TP AP
CJ:TP:AP:sb

Attachments: Two (2) - Operations Site Security Plan

cc: Andy Siegelstein, Genesis Solar, LLC, c/o NextEra, Juno Beach, FL, w/o attachment
Ron Johnson, Genesis Solar, LLC, c/o NextEra, Juno Beach, FL, w/o attachment
Matthew McCord, Genesis Solar, LLC, c/o NextEra, Juno Beach, FL, w/o attachment
Charlyn Mosley, c/o NextEra, Juno Beach, FL, w/o attachment
Jennifer Field, Genesis Solar, LLC, c/o NextEra, Juno Beach, FL, w/o attachment
Art Pinto, Fluor Enterprises, Inc., Irvine, CA, w/o attachment
Tommy Pouncy, Fluor Enterprises, Inc., Irvine, CA, w/o attachment
Sasha Aguilera, Fluor Enterprises, Inc., Irvine, CA, w/o attachment
Gary Mack, Fluor Enterprises, Inc., Irvine, CA, w/o attachment

File No.: G100-210-R

Genesis Solar LLC
Genesis Solar Energy Project
Riverside County, California
Project No. A4PA

Hazardous Materials Management Operations Site Security Plan HAZ-6

Submitted to:
California Energy Commission
Sacramento California

Submitted by:
Genesis Solar, LLC

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3.0 MAIN ENTRANCE SECURITY GATE 4
4.0 EVACUATION PROCEDURES 4
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1.0 INTRODUCTION

This document provides methods and information outlining the Genesis Site Specific Security Plan during and after construction of the Genesis Solar Energy Project, near Blythe, California.

Due to the large area this project encompasses, the construction of this project will be achieved in two different construction phases. Phase 1 will consist of the construction of the private main entrance road (approximately 6.5 miles) and phase 2 will be construction of the plant site proper.

This document also describes the minimum technical requirements for the design of a Security System to be installed in conjunction with a Concentrating Solar Power (CSP) power plant. The Genesis facility shall consist of two solar fields consisting of Solar Trough Panels that use a tracking system to follow the sun. The sun's energy is concentrated by parabolic curved, trough-shaped reflectors onto a receiver pipe running along the inside of the curved surface. This energy heats oil flowing through the pipe and the heat energy is then used to generate electricity in a conventional steam generator. The collector fields shall be comprised of many troughs in parallel rows aligned on a north-south axis. This configuration shall enable the single-axis troughs to track the sun from east to west during the day. Power meters are used to monitor the output voltage up to the point of interconnect to the grid. The Genesis Plant Power Blocks will generate approximately 125 megawatts of electricity each for a combined total output of 250 megawatts.

The Genesis Solar Plant will be constructed approximately 6.5 miles N/W of the 10 Freeway and Wiley's Well Road exit which is approximately 20 miles west of the town of Blythe "as a point of reference" and is located in the South Eastern area of Southern California. An access road shall be constructed to provide vehicles with paved road access to the Solar Plant. A fiber optic data communication connection to the Local Exchange Carrier (LEC) will be provided for interactive plant data communications to critical outside interfaces. The installation of a fiber optic data communication cable will include the construction of an approximately 6.5-mile fiber optic data transmission cable that will provide a data communication interface for the plants outgoing and incoming data connections. The fiber optic cable shall support splice panels to interconnect the Security System from the plant private access road entrance gate to the head-end Security System interfaces located in the plant site common area Administration and Control Building. The fiber optic data transmission cable shall be armored in design, constructed for aerial, buried and duct installations and run in parallel with a 12kV electrical transmission line (both to share the same transmission line poles). The new fiber optic data transmission cable, 12kV transmission line, access road, and a natural gas pipeline will generally be co-located in one linear corridor to serve the main project facility.

2.0 PERMANENT FENCING

The permanent fence will consist of both an 8'-0" high security fence topped with barbed wire and on the west side of each solar field the fence will be 16'-0" high without barbed wire.

In the attachments, sketch A4PA-0-SK-00-29, shows the extent of each the 16'-0" high wind fence and 8'-0" high security fence.

3.0 MAIN ENTRANCE SECURITY GATE

The main entrance security gate will be motorized. Further details of the controls are outlined in section 7.0 Site Access Controls.

4.0 EVACUATION PROCEDURES

The evacuation procedures establish the planned response actions that will be taken by personnel at the Genesis Facility in the event of an emergency situation.

It is the responsibility of the Site/Plant Leader to assess a developing emergency situation and initiate the appropriate actions to protect personnel, the surrounding environment, and plant equipment from adverse damage. In the event of an emergency the following actions will be performed:

- In the event there is a fire, medical or police emergency - contact 911 immediately.
- If the event is a fire, medical, police, weather-related ensure the following are also contacted: Production Manager (Emergency Coordinator); Operations Specialists (Emergency Coordinator); Maintenance Specialists (Emergency Coordinator)
- Any work-related permits in effect shall be voided and personnel involved in such work shall cease all activities.
- Based upon the type and extent of the emergency, the Site/Plant Leader should access whether an evacuation should be initiated. The Site/ Plant leader will determine the severity of the emergency and determine if the operations staff should conduct a controlled shutdown of equipment or it is necessary for everyone vacate the site/area to remove personnel from immediate danger.

If the Site/Plant Leader (or Emergency Coordinator) determines that an evacuation is necessary, they shall ensure that a sounding of the plant alarm system is initiated. The evacuation alarm should be sounded and all employees/visitors accounted for.

If an evacuation has been directed and following the sounding of the evacuation alarm, the Site/Plant Leader shall ensure that instructions for the evacuation are communicated to personnel over the plant radio system. The instructions should include the nature of the emergency / the location of the emergency / the muster point to be used / and egress routes that should not be used by evacuating personnel.

The primary evacuation point will be the parking lot of the administrative building in the common area (outside the control room building). The secondary muster point will be outside the main access gate on the east side of solar field for Unit 2.

Once the emergency has ended and the site deemed safe for operations and work the Site/Plant Leader (or Emergency Coordinator) will communicate the all clear to personnel over the radio. Personnel are not allowed back into the areas that have been evacuated until the all clear signal is communicated from the Site/Plant Leader (or Emergency Coordinator).

5.0 PROTOCOL FOR CONTACTING LAW ENFORCEMENT

Communication with law enforcement and other emergency support will be coordinated through the control room to ensure all activities are coordinated on-site. Contact for all emergency support for the site will be made through the 911 system to ensure the proper emergency support is notified. If any personnel on-site are in need of emergency services they shall contact the control room through the plant radio system to let them know what support they need and their location. The control room will then call 911 to request services and coordinate on-site activities.

6.0 RECEIPT OF SUSPICIOUS PACKAGES

In the event that the site receives threatening correspondence either by phone or other means of communication or there is a suspicious package received on-site the following actions should be performed immediately:

Actions by the plant personnel receiving the threat:

- Gather as much information as possible from the person making the threat. If the threat is via written correspondence, place the correspondence in a location in which it will not be touched or otherwise disturbed until police can be contacted. If the threat is made verbally (phone, or other), communicate and obtain as much information from the individual making the threat as possible.
- Inform the Site/Plant Leader and General Manager of the situation.

Actions by the plant personnel, contractors and vendors discovering a suspicious object or package on or near the plant site:

- Do not disturb, move or pickup the suspicious object / package.
- Do not try to open the package.
- Note any details easily visible about the object / package.
- Immediately inform the Site/Plant Leader of the situation.

The Site/Plant Leader and/or General Manager may consider any or all of the following actions to take in response to the situation:

- Order an evacuation of the facility.
- Call 911 for Police or Fire Assistance
- Arrange for additional security personnel for the facility.
- Direct plant personnel to commence a controlled shutdown of the facility.

Signed Affidavit forms are in the Attachment Section.

7.0 SITE ACCESS CONTROLS

The Genesis Solar Plant Security System shall be comprised of an Access Control System (ACS) and Closed Circuit Television (CCTV) System designed to provision a fully functional, efficiently integrated total plant solution. The ACS shall be comprised of Proximity "Badge" Readers, Intercoms, Door Locks, Monitor Screens, Matrix server(s), User Workstations. A Security Software Application package shall be installed on the Server(s) and workstations to monitor and manage the operation and control of the ACS and CCTV devices. The CCTV system shall be comprised of IP enabled network cameras installed at the plant Access Road Entrance Gate, Main Access Gate, Power Blocks, and Admin-Control Building to provide a fully integrated and secure view of all critical locations throughout the plant.

The Genesis Solar Plant Security System shall be installed at various locations throughout the plant and is further described in the following sections:

- ACCESS ROAD - SECURITY GATE ACCESS CONTROL AND CCTV - (SEC. 7.1)
- MAIN PLANT ENTRANCE - SECURITY GATE ACCESS CONTROL AND CCTV- (SEC. 7.2)
- SECURITY SYSTEM COMPONENTS - (SEC.7.3)
- CONTROL ROOM - ACS, CCTV CONTROL AND MONITORING - (SEC. 7.3)
- POWER BLOCK AND COMMON AREA - ACS AND CCTV - (SEC. 7.5)
- SECURITY SYSTEM UNINTERRUPTED POWER SUPPLY (UPS) - (SEC. 7.6)

7.1 ACCESS ROAD - SECURITY GATE ACCESS CONTROL AND CCTV

The Genesis Plant will have two security gates that all traffic must pass through prior to entering into the interior region of the plant. The first point of entrance is the Wiley's Well "Plant Access" Road, which, will serve primarily as a screening gate for visitors while also providing a discretionary deterrent to the general public. The Genesis Plant access road is a road that transitions from Wiley's Well Road to a private right of way approximately ¼ mile past the public rest stop. The access gate entrance shall be used to discourage non-authorized vehicles

from attempting to drive onto the access road. The Access Road Entrance gate shall be provisioned with the following Security System components:

- Pan Tilt and Zoom (PTZ) Cameras (Area Surveillance)
- Fixed Cameras (Identity Management)
- Intercom (Voice Communication Transport)
- Proximity Readers (Security Badge Access for Authorized Personnel)
- Ground Loops (Vehicular Detection)
- Boom Gates (Blocks Unauthorized Vehicular Access)
- Area Lighting (Night Visibility)
- Fiber Splice Panel (Data Communication Transport)
- Power Panel (Local Power Requirements)
- Underground Conduits (Power and Data Interconnectivity)
- Vandal Proof Security Equipment Enclosure (Equipment Protection)
- K12 Rated Bollards (Equipment Protection)

The installation of the above components shall be utilized to manage the ingress of vehicles onto the Private Genesis Access Road (Wiley's Well Road). With exception to the fiber splice panel, power panel and ground loop sensors, all security equipment shall be located on a concrete island constructed in the middle of the access road. The fiber splice panel and power panel shall be located near a transmission line pole constructed to carry both power and fiber and shall be the origination point for all power and data specific underground conduits that interconnect the entrance gate security equipment located approximately 300 ft to the East.

Authorized access to the Plant Access Road shall be granted to employees and authorized individuals using a Security Badge issued by Genesis Security Personnel. A valid security badge detected by the entrance gate proximity reader shall raise the boom gate and allow one (1) vehicle to pass and shall be a security system controlled function that does not require human intervention. Ground Loop Sensors shall be installed fore and aft of both entrance and exit Boom Gates to allow the Security System to detect approaching vehicles and determine when vehicles have entered into or exited from the Plant Access Road.

A security stanchion shall be installed on a concrete security island to support two (2) fixed cameras, two (2) proximity "badge" readers and one (1) intercom. A single camera and proximity reader shall be grouped and installed using height requirements to support large vehicles and semi trucks and a single camera and proximity reader shall be grouped and installed using height requirements to support passenger vehicles. The intercom shall be installed between the upper and lower equipment groupings. This combination shall provide arriving vehicles with the ability to electronically communicate to plant operators without exiting their vehicle.

All Visitor's and Guests may be granted access by authorized plant personnel and shall be accomplished by using both a fixed camera and intercom as a visual and audible means of communications. Plant personnel using ACS software and/or hardwired switches may electronically grant approved guest and visitor access from the remote Control Building.

For Visitors and Guests that are denied access, a paved turnaround pad shall be constructed to allow all vehicles the required clearance to turn a vehicle around and exit the entrance gate area.

Exiting of vehicles leaving the Genesis Plant Access Road shall be accomplished using a ground loop to detect outbound vehicles as they approach the exit gate. The Security System shall interpret the signal and raise the exit Boom Gate. A second ground loop will be installed just past the exit gate to detect the exited vehicle and immediately signal the gate to lower.

All access gate equipment shall be both weather proof and vandal proof in design and housed in vandal proof enclosures. Due to the wide-open nature of the plant and plant access road, vandal-proofing the security equipment shall require using bullet-proof enclosures for equipment located on, near or outside the plant perimeter. The use of K12 rated bollards shall be installed around the concrete security island to protect equipment from vehicular damage.

Outdoor security lighting shall be installed for the access gates. Outdoor area lighting shall consist of permanently mounted fixtures secured to the concrete security island and shall provide access lighting for maintenance vehicles and security. The lighting system shall be designed to provide nighttime lighting levels consistent with applicable illuminating Engineering Society standards, California Energy Commission Conditions of Certifications and Riverside County zoning ordinances.

Two (2) PTZ security cameras shall be installed one mounted to each of the two (2) light poles located on the security island and shall be used to monitor inbound and outbound traffic including the surrounding area. Each camera shall be capable of viewing 360° for redundant coverage capabilities. Cameras shall be designed specifically for harsh climates with integrated active cooling and reliable video surveillance designed for desert environments. The high-speed PTZ camera shall support powerful zoom and High Definition Television (HDTV) resolution of 1080p, operate in heat up to 167 °F with the ability to withstand sandstorms and conform to military standard, MIL-STD-810G.

7.2 MAIN PLANT ENTRANCE - SECURITY GATE ACCESS CONTROL AND CCTV

The Main Plant Security Entrance Gate is the second gate to pass through prior to gaining entrance into the Genesis Plant, this gate is located at the east side of Solar Field #2 and is approximately 6.5 miles N/W of the Access Road Security Gate. The Genesis Plant access road transitions to the plant interior at the main gate entrance. A gate shall be installed to prevent access of non-authorized vehicles. The Main Plant Entrance Gate will at minimal be provisioned with the following Security System components:

- PTZ Camera
- Fixed Camera
- Intercom
- Proximity Reader
- Vehicle Detection
- Gate
- Lighting
- K12 Rated Bollards

The installation of the above components shall be utilized to manage the ingress of vehicles into the Genesis Plant interior. A fiber splice panel and power panel shall be provisioned in close proximity to the security equipment enclosure.

Authorized access to the Genesis Plant shall be granted to employees and authorized contractors using a Security Badge issued by Genesis Security Personnel. A valid security badge detected by the entrance gate proximity reader shall activate the opening of the gate allowing a single vehicle to pass and shall be an automated function that does not require human intervention.

The main gate entrance will utilize a motorized sliding security gate. A security stanchion shall be installed to support fixed cameras, proximity "badge" readers and an intercom. A single camera and proximity reader shall be grouped and installed using height requirements to support large vehicles and semi trucks and a single camera and proximity reader shall be grouped and installed using height requirements to support passenger vehicles. The intercom shall be installed between the upper and lower equipment groupings. This combination shall provide arriving vehicles with the ability to electronically communicate to plant operators without exiting their vehicle.

All Visitor's and Guests may be granted access by authorized plant personnel and shall be accomplished by using both a fixed camera and intercom as a visual and audible means of communications. Plant personnel using ACS software and/or

hardwired switches may electronically grant approved guests and visitor's access from inside the remote Control Building.

Visitors and Guests that have been denied access shall be required to exit utilizing the two lane access road they arrived on. Note: This should be a rare occurrence based on traffic screening processes at the access road entrance gate.

Exiting of vehicles leaving the Genesis Plant shall be accomplished using an automated vehicle detection device as they approach the exit gate. The Security System shall process a signal and open the Sliding Gate. Similarly, an automated vehicle detection device will sense the vehicles exit and signal the gate to close.

All access gate equipment shall be both weather proof and vandal proof in design and/or housed in vandal proof enclosures. The use of K12 rated bollards shall be installed around the concrete security island to protect equipment from vehicular damage.

Outdoor security lighting shall be installed for the access gates and shall consist of permanently mounted fixtures secured to the security island and shall provide access lighting for maintenance vehicles and security. The lighting system shall be designed to provide nighttime lighting levels consistent with applicable illuminating Engineering Society standards and Riverside County zoning ordinances.

A PTZ security camera shall be mounted to the security island light pole with a default homed position facing south to monitor inbound/outbound access road traffic and surrounding area. A PTZ Camera shall be installed on a light pole located inside the plant perimeter facing west to monitor all inbound/outbound plant access road traffic and surrounding area. Each camera shall be capable of viewing 360° for redundant coverage capabilities. Cameras shall be designed specifically for harsh climates with integrated active cooling and reliable video surveillance designed for desert environments. The high-speed pan/tilt/zoom cameras shall support powerful zoom and HD resolutions, operate in extreme heat and withstand sandstorms.

7.3 SECURITY SYSTEM COMPONENTS

The Genesis Security System shall be a General Electric M3000 Access Control System (ACS) and shall manage security for all areas of the plant. The Security System shall at minimal be equipped with the following features and include the following components to facilitate a fully functional complete security system.

- Card Readers, Intercoms, Cameras
- Access Gates
- Door Locks

- Security Workstations, Security Server, Security Application Software
- Digital Video Recorder "DVR" Large Screen TV Monitors
- K12 Rated Bollards
- UPS - (24 hour minimal, Battery Backup for all outdoor equipment)

Note: all Outdoor Equipment shall be rated to withstand temps in excess of 130° F or protected by using sun shades, equipment covers or installed in protected areas to avoid excessive temperatures.

7.4 CONTROL ROOM ACS, CCTV CONTROL AND MONITORING

The Control Room shall have multiple CCTV monitors capable of providing a selection of viewing options for all plant Cameras. Monitors shall be capable of segmental viewing; the receiving inputs shall come from dual monitor display cards installed in each of the Security System workstations located in the control room and shall be located within close proximity to a video wall monitor. The Security System workstations shall provide redundant controls of all CCTV views so that in the event one of the workstations fails or requires offline maintenance, full CCTV control can be maintained without interruption. The security workstations shall allow operators or security personnel to manually operate the cameras through security software control inputs. Additionally manual joystick provisioned keyboard controllers shall be installed at each of the security system workstations to enable control operators to have full CCTV control without tying up workstations. The default CCTV viewing parameters shall be configured to provide operators and security personnel with optimal views for all cameras based on the area coverage and functional security role of each camera.

CCTV Cameras shall be a combination of both Fixed and PTZ styles, PTZ cameras shall be used for area monitoring, Fixed cameras shall be used at Security Gates, Control Building Main Entrance and each of the Control Room Entrances for Identity Management. The integrated functionality of cameras and security server software shall provide a Security System capability of detecting motion, presenting an alarm and automatically zooming and tracking the motion until human intervention validates or dismisses the condition. This process is referred to as an automatic call-up and shall also apply to the proximity readers in the event that an invalid card read occurs (where a card reader controlled door is held or forced open). CCTV Cameras shall be configured with presets that detect ACS alarm conditions and automatically zoom to the alarm event location. In the case of simultaneous alarms, each alarm shall be sequentially queued and the associated video shall automatically call-up and display on a monitor. Intercoms shall be installed at each of the Vehicle Gates, Control Room Entrance Doors, the Control Building Main Entrance, Control Room Operator Consoles and all Power Block and Common Area buildings provisioned with a proximity reader. The intercoms shall provide 2-way voice communications for Control Room

Operators and/or Receptionist. Intercoms shall operate interactively and seamlessly with Cameras and Proximity Readers. Intercoms shall be used primarily to identify individuals seeking entrance to the Genesis Plant facilities. If a Control Operators or Receptionist verify and approve requested access they can invoke remote activation of gates or open/unlock security provisioned doors granting entrance via the interactive Security System software and/or electronic signaling via a manually activated remote relay switch. In the event of a plant emergency where non-badged individuals i.e. Police Officer or Fireman require access to a remote building equipped with an Intercom, an Intercom access request may be granted via the security system.

A Network Video Recorder (NVR) shall be provisioned to store video records and shall include time frame of events captured during certain periods. The digital video recorder along with all Servers, Network Switches, Interface Devices, Power Supplies and Auxiliaries shall be installed in network racks in the DCS/IT room located on the first floor of the Admin-Control Building.

7.5 POWER BLOCKS AND COMMON AREA ACS AND CCTV

Power Block 1, Power Block 2 and Common Area buildings shall be provisioned using PTZ Dome Network Cameras with integrated active cooling and reliable video surveillance designed for desert environments. The high-speed pan/tilt/zoom cameras shall support powerful zoom and HD resolutions, operate in extreme heat with the ability to withstand sandstorms. The Cameras shall support advanced climate control system and handle rapid temperature changes to eliminate condensation. Cameras shall be IP66 and NEMA 4X-rated making it dust and waterproof. Cameras shall support day and night functionality, wide dynamic range, H.264, automatic guard tour, preset positioning, alarm management and auto-tracking.

The Power Block PTZ cameras will be strategically located approximately 70 ft above grade so that each camera can be dedicated to constant monitoring of the Power Block perimeter, enabling a full spectrum panoramic view. The automated security system software will remotely control all monitoring cameras enabling the camera to activate, focus and track suspected changes in the video field. The cameras will be capable of remote 360° directional and zoom-focus control for human intervention as required.

Power Block 1 and Power Block 2 buildings shall have Proximity Readers and Intercoms installed to the left of the access door for the following buildings/rooms; Electronics Room, Workshop/Storage Room North, Workshop/Storage Room South, Electrical Room, Battery Room, PDC. The PDC shall have a homerun fiber connection to the Electronics Room Layer 2 aggregate switch. A fiber optic link to the Admin-Control Building head end security

switches shall be a homerun originating at the Electronics Room Layer 2 aggregate switch. All other access doors in each of the power blocks shall be keyed lock entry and require individuals seeking access to obtain a key by providing their personal information as part of the facilities access policy.

Water Treatment Common Area buildings shall have Proximity Readers and Intercoms installed to the left of the access door for the following buildings; Waste Water Treatment building and PDC building. The Waste Water Treatment building shall have a homerun fiber connection to the PDCs Layer 2 aggregate switch. A fiber optic link to the Admin-Control Building head end security switch shall originate at the PDCs Layer 2 aggregate switch. All other access doors in the Water Treatment Common Area shall be keyed lock entry and require individuals seeking access to obtain a key by providing their personal information as part of the facilities access policy.

7.6 SECURITY SYSTEM UPS

All Security System components shall be designed for 'clean' UPS or generator power enabling at minimal 24 hours of uninterrupted operation. This includes CCTV Cameras, Proximity Readers, Intercoms, Monitoring Equipment (servers, workstations, NVR's), Security Network Switches and or Media Converters, Gates and all Security Area Lighting.

8.0 SIGN STATEMENT OF RECEIVING HAZARDOUS MATERIAL

See the attached signed form in the attachments section.

9.0 SECURITY MONITORING SYSTEM

In section 7.0 Site Access Control, the monitoring system is discussed.

10.0 PERIMETER SECURITY

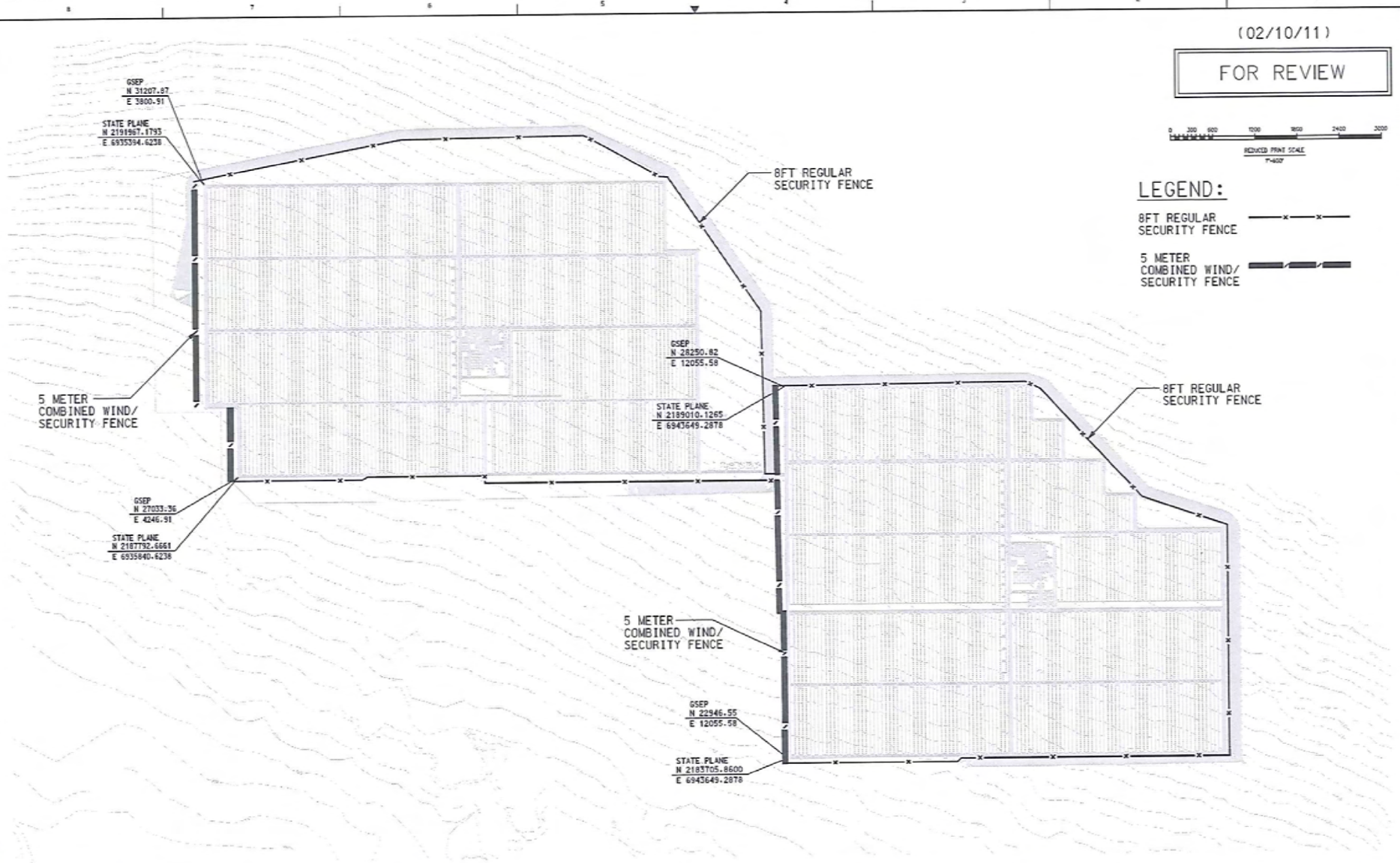
The Genesis Plant will have 24 hour plant personnel and provide CCTV able to view both site entrance gates and 100% of the power block perimeter. Further detail of the Genesis Plant monitoring system is stated in section 7.0 Site Access Control.

11.0 ATTACHMENTS

- A4PA-0-SK-0-00-29 Fencing Plan
- Genesis Security Overview (For Reference)
- Signed Affidavits

(02/10/11)

FOR REVIEW



LEGEND:

8FT REGULAR SECURITY FENCE

5 METER COMBINED WIND/ SECURITY FENCE

REV	DATE	REVISION DESCRIPTION	BY	CHK	APPV	REFERENCE DWG NUMBER	REFERENCE DRAWINGS

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FLUOR. Genesis Solar LLC

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CONTRACT 44PA	DRAWING BY MS	
DESIGNED BY PT		
CHECKED BY MC		
SUPERVISOR MC		APP DATE
LEAD ENGR/SPEC. GP		APP DATE
FLUOR		APP DATE
CLIENT		APP DATE

Genesis Solar Energy Project
Riverside County, California

PRELIMINARY SITE FENCING LAYOUT
UNIT 1 & 2

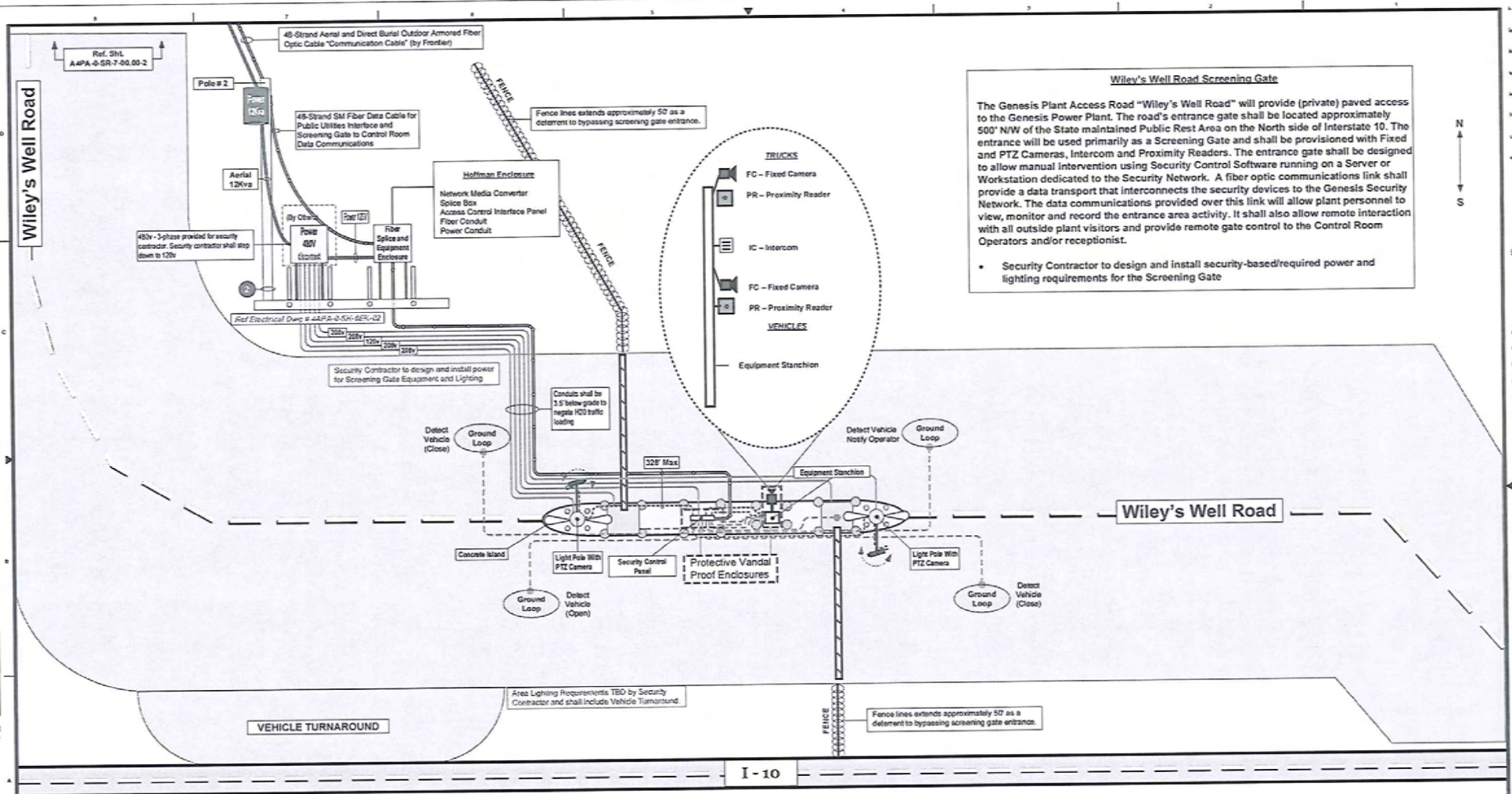
SCALE 1" = 600'

DRAWING NUMBER A4PA-0-SK-0-00-29

REV A

CAD FILE NAME A4PA-0-SK-0-00-29.DGN

PLOT DATE: 04-MAR-2011 11:09 FILE SPEC: K:\CAD\210\dwgs_IS\Sketch\A4PA-0-SK-0-00-29.dgn



Wiley's Well Road Screening Gate

The Genesis Plant Access Road "Wiley's Well Road" will provide (private) paved access to the Genesis Power Plant. The road's entrance gate shall be located approximately 500' N/W of the State maintained Public Rest Area on the North side of Interstate 10. The entrance will be used primarily as a Screening Gate and shall be provisioned with Fixed and PTZ Cameras, Intercom and Proximity Readers. The entrance gate shall be designed to allow manual intervention using Security Control Software running on a Server or Workstation dedicated to the Security Network. A fiber optic communications link shall provide a data transport that interconnects the security devices to the Genesis Security Network. The data communications provided over this link will allow plant personnel to view, monitor and record the entrance area activity. It shall also allow remote interaction with all outside plant visitors and provide remote gate control to the Control Room Operators and/or receptionist.

- Security Contractor to design and install security-based/required power and lighting requirements for the Screening Gate

NOTES:
1). Vehicle Sensor Type - Ground Loop
2). Lighting Requirements TBD by Security Contractor (Entire Entrance / Gate area)
3). Vandal proofing of Network Enclosures required - (Bullet Proof)

Security Device Wiring TBD by Security Contractor

NOT TO SCALE

NETWORK Interface Cables
- FIBER OPTIC CABLE – Field Connected Nodes (Physical Media as Noted)
- FIBER OPTIC PATCH CABLE - (Physical Media as Noted)
- CAT6 - Ethernet - (Physical Media as Noted)
- Serial Cable (Serial RS-485 1-Pair Belden # 3105A)

POWER 120v 480v / 12Kva (as noted) | POWER POLE - | BOLLARD - | AREA LIGHTING POLE - | INTERCOM (IC) - | FIXED CAM (FC) - | PROXIMITY READER (PR) - | PTZ CAM (PTZ) -

REV	DATE	REVISION DESCRIPTION	BY	CHK	APPV	REFERENCE DWG NUMBER	REFERENCE DRAWINGS
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DRAWN BY: A4PA	DRAWN BY: G.MACK
DESIGNED BY: G.MACK	
CHECKED BY: MICHAEL J. MESSERSCHMITT	
SUPERVISOR: W.D.BECKHAM	APP'D BY: 01/09/2012
MANAGER/APPROVAL: B.CONCEPCION	APP'D BY: 01/09/2012
FLUOR: A.PINTO	APP'D BY: 01/09/2012
CLIENT	APP'D BY:

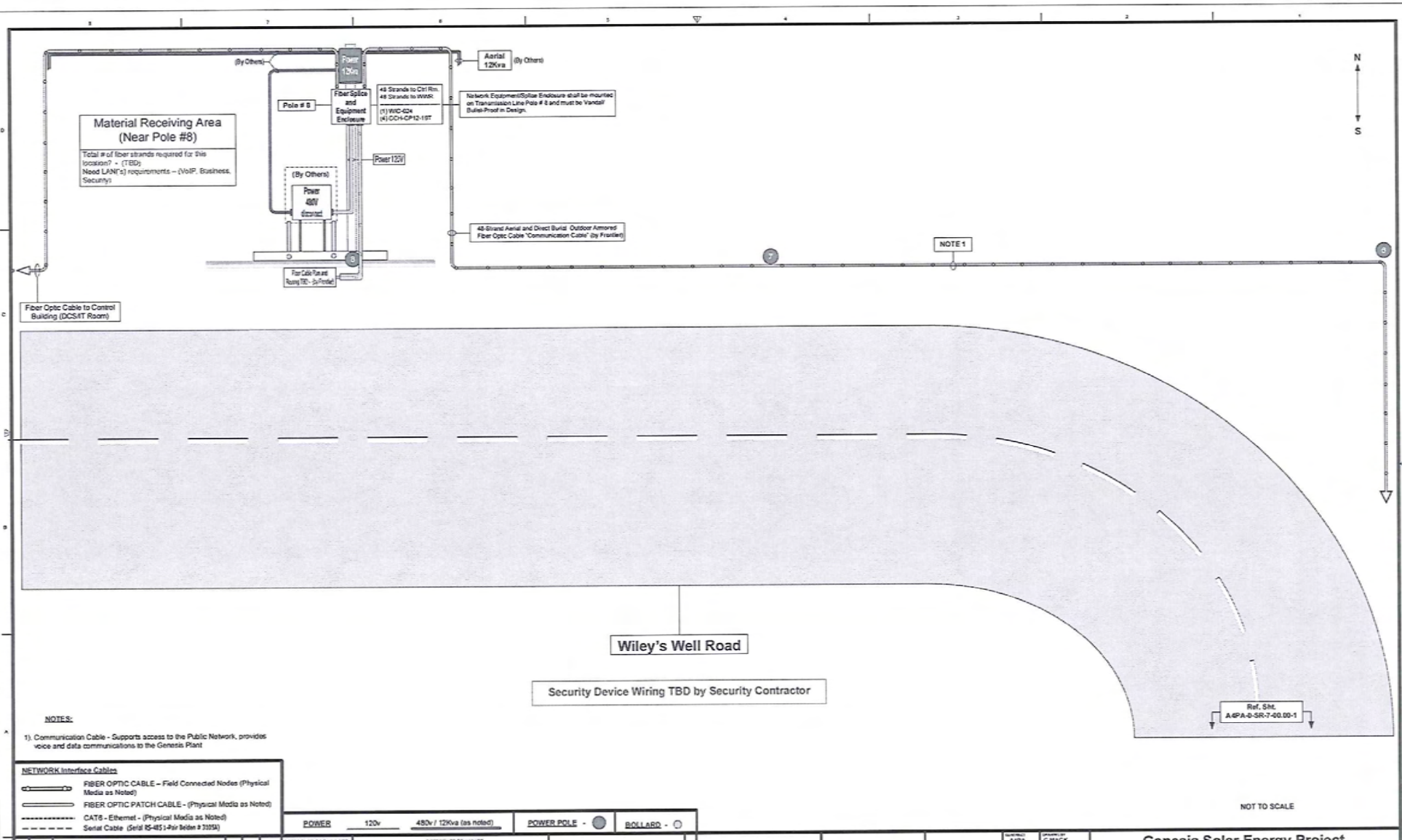
Genesis Solar Energy Project
Riverside County, California

FIBER OPTIC CABLE REQUIREMENTS
WILEYS WELL ACCESS ROAD ENTRANCE SYSTEM – POLE # 2
CONTROL SYSTEM

SCALE: NONE | DRAWING NUMBER: PRELIMINARY | REV: 0

CAD FILE NAME: A4PAQSR7000002.DWG

PLOT DATE:



NOTES:

1). Communication Cable - Supports access to the Public Network, provides voice and data communications to the Genesis Plant

NETWORK Interface Cables

- FIBER OPTIC CABLE – Field Connected Nodes (Physical Media as Noted)
- FIBER OPTIC PATCH CABLE - (Physical Media as Noted)
- CAT6 - Ethernet - (Physical Media as Noted)
- Serial Cable (Serial RS-485 1-Pair Belden # 3105A)

POWER 120v 480v / 12Kva (as noted) | POWER POLE - | BOLLARD -

REV	DATE	REVISION DESCRIPTION	BY	CHK	APPV	REFERENCE DWG NUMBER	REFERENCE DRAWINGS
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PROJECT A4PA	DRAWN BY G.MACK
DESIGNED BY G.MACK	
CHECKED BY MICHAEL J. MEESERSCHMITT	
MATERIALS W.D.BECKHAM	APP DATE 01/20/2012
CONSTRUCTION B.CONCEPCION	APP DATE 01/20/2012
PCM A.PINTO	APP DATE 01/20/2012
CLIENT	APP DATE

Genesis Solar Energy Project

Riverside County, California

FIBER OPTIC CABLE REQUIREMENTS
MAT. RECEIVING FIBER EQUIP/SPLICE CABINET - POLE # 8
CONTROL SYSTEM

SCALE: NONE | DRAWING NUMBER: PRELIMINARY | REV: 0

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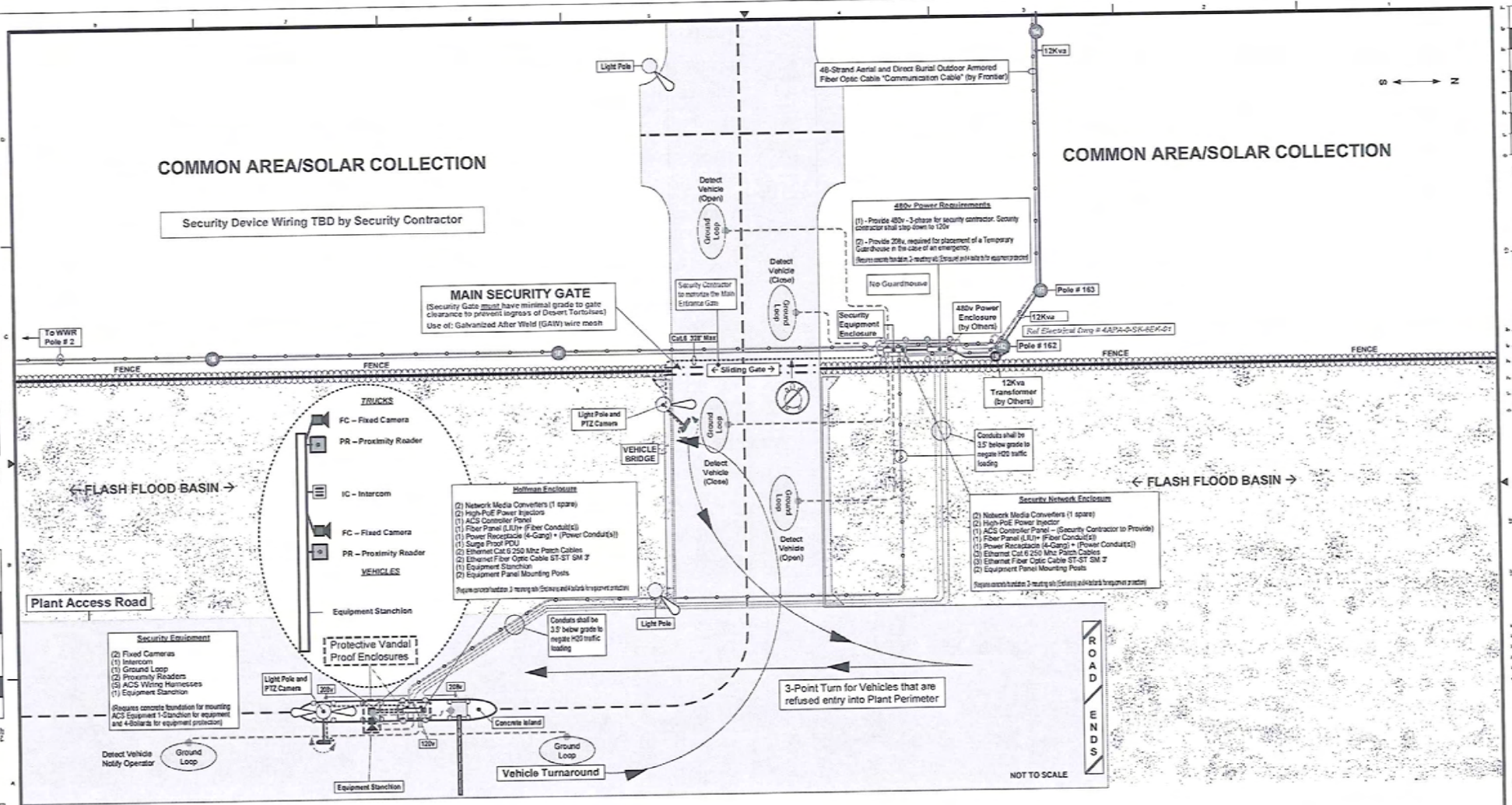
PLOT DATE:



NOTES:

1). Vehicle Sensor Type - Ground Loop
2). Lighting Requirements TBD by Security Contractor (Entire Entrance / Gate area)
3). Vandal proofing of Network Enclosures required - (Bullet Proof)
4). Main Gate must be designed to prevent Tortoise Ingress. – (into plant boundaries)
4). All Fire Alarm panels must be integrated to the DCS by way of a serial hardwired interface (by Others) and an Ethernet broadband interface to provide a robust Alarm signaling capability.
5). Security Contractor to motorize the Main Entrance Gate.

NOT TO SCALE

NETWORK Interface Cables
- FIBER OPTIC CABLE – Field Connected Nodes (Physical Media as Noted)
- FIBER OPTIC PATCH CABLE - (Physical Media as Noted)
- CAT6 - Ethernet - (Physical Media as Noted)
- Serial Cable (Serial RS-485 1-Pair Belden # 3105A)

POWER 120v 480v / 12Kva (as noted) | POWER POLE - | BOLLARD - | AREA LIGHTING POLE - | INTERCOM (IC) - | FIXED CAM (FC) - | PROXIMITY READER (PR) - | PTZ CAM (PTZ) -

REV	DATE	REVISION DESCRIPTION	BY	CHK	APPV	REFERENCE DWG NUMBER	REFERENCE DRAWINGS
0	6/12/2012	ISSUED FOR REVIEW			BC		

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CEO
REGISTERED ENGINEER

FLUOR

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ELECTRICAL A.APA	CIVIL/STRUCTURAL G.MACK	
DESIGNED BY G.MACK		
PROJECT ENGINEER MICHAEL J. WISSERSCHMITT		
CHECKED BY W.D.DECKHAM	APP DATE 6/12/2012	
LEAD ENGINEERING B.CONCEPCION	APP DATE 6/12/2012	
ELECTR. A.PINTO	APP DATE 6/12/2012	
CIVIL/STRUCT	APP DATE	

Genesis Solar Energy Project

Riverside County, California

FIBER OPTIC CABLE REQUIREMENTS
MAIN GATE PLANT ENTRANCE - CCTV AND ACS - POLE # 162
CONTROL SYSTEM

SCALE: NONE | DRAWING NAME: PRELIMINARY | REV: 0

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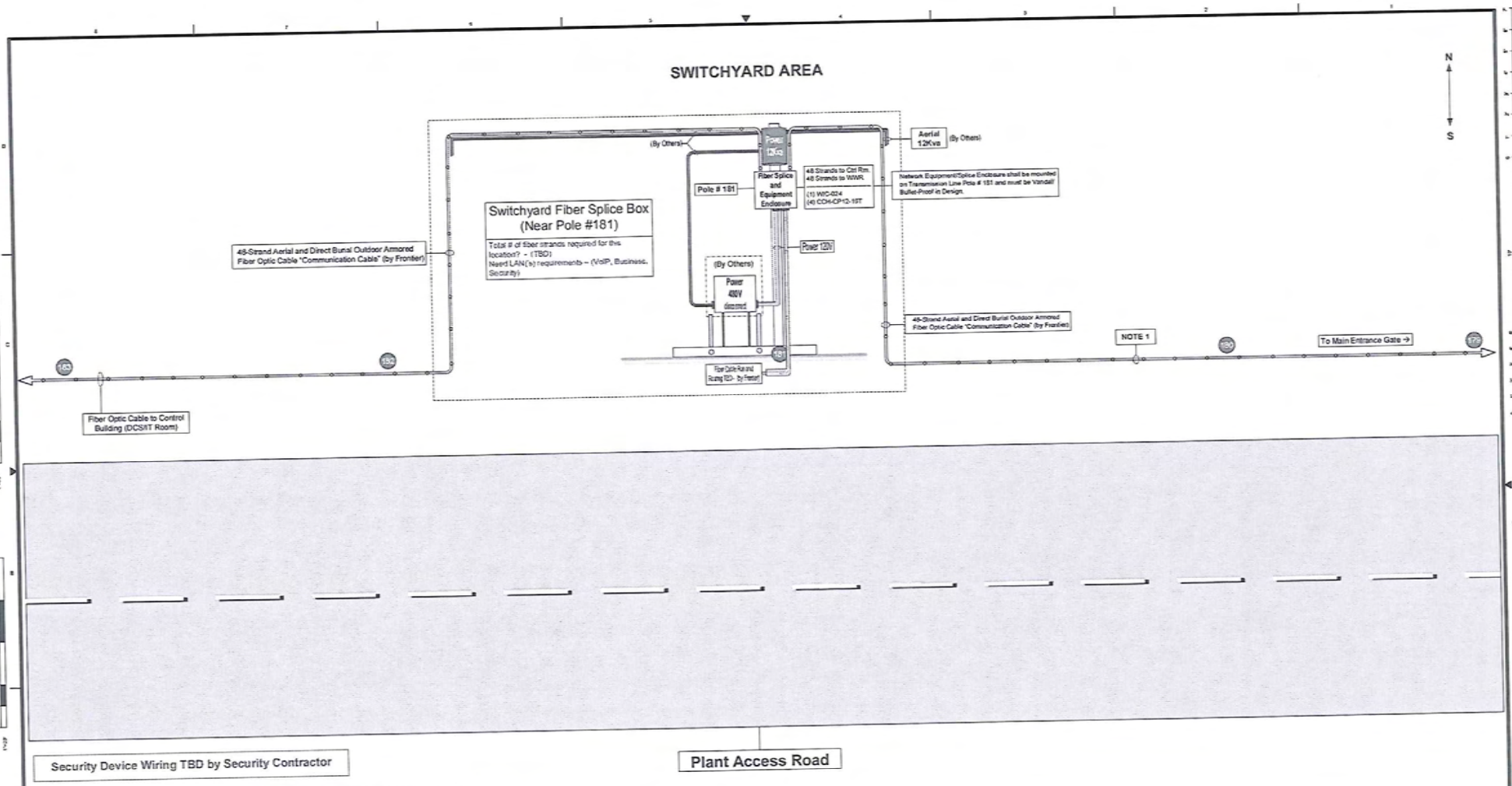
PLOT DATE:



POWER 120v 480v / 12Kva (as noted) | POWER POLE - ● | BOLLARD - ○

NETWORK Interface Cables
- FIBER OPTIC CABLE – Field Connected Nodes (Physical Media as Noted)
- FIBER OPTIC PATCH CABLE - (Physical Media as Noted)
- CAT6 - Ethernet - (Physical Media as Noted)
- Serial Cable (Serial RS-485 1-Pair Belden # 3105A)

NOTES:
1). Communication Cable - (Supports access to the Public Network, provides voice and data communications to the Genesis Plant)

NOT TO SCALE

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COMPANY: A4PA	DRAWING BY: G.MACK
DESIGNED BY: G.MACK	
CHECKED BY: MICHAEL J. MESSERSCHMITT	
SUPERVISOR: W.D.BECKHAM	APP DATE: 01/23/2012
LEAD ENGINEER: B.CONCEPCION	APP DATE: 01/23/2012
PLANNER: A.PINTO	APP DATE: 01/23/2012
SUBMIT	APP DATE

Genesis Solar Energy Project
Riverside County, California

SECURITY NETWORK REQUIREMENTS
SWITCHYARD FIBER EQUIP/SPLICE CABINET - POLE # 181
CONTROL SYSTEM

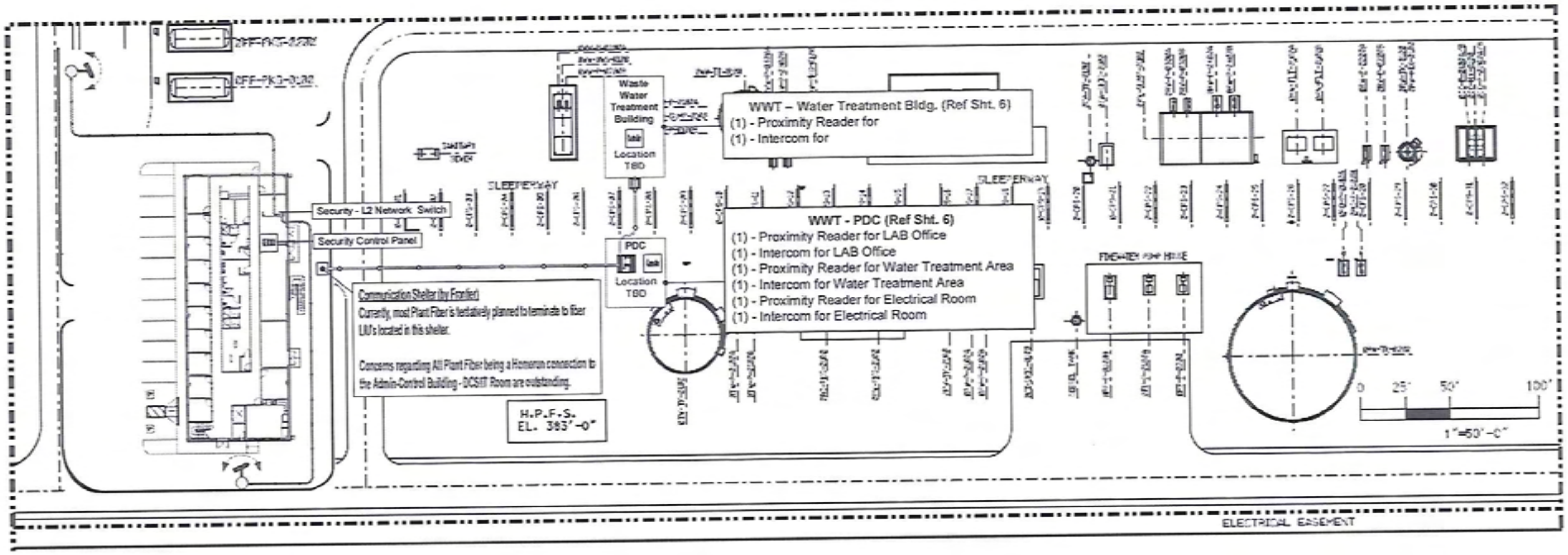
SCALE: NONE | DRAWING NUMBER: PRELIMINARY | REV: 0

CAD FILE NAME: A4PA0SR7000002.DWG

A4PA_0.DWG 23/01/12

PLOT DATE:

Final Design for Common Area may result in additional security scope - TBD



Security Device Wiring TBD by Security Contractor

NOTES:

1). Camera shown for placement purposes only and does not represent the final model selection or design configuration.

NETWORK Interface Cables

- FIBER OPTIC CABLE – Field Connected Nodes (Physical Media as Noted)
- FIBER OPTIC PATCH CABLE - (Physical Media as Noted)
- CAT6 - Ethernet - (Physical Media as Noted)
- Serial Cable (Serial RS-485 1-Pair Belden # 2105A)

BOLLARD - ○ | AREA LIGHTING POLE - ○ | PTZ CAM (PTZ) - | Security Control Panel Requires 110 VAC - [sub]

NOT TO SCALE

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DESIGNED BY: A.PIR	DATE: Q.MACK
DRAWN BY: Q.MACK	
APPROVED BY: MICHAEL J. MESSERSCHMITT	
CHECKED BY: W. D. DECKHAM	DATE: 01/30/2012
PROJ ENGR: B.CONCEPCION	DATE: 01/30/2012
PROJ MGR: A.PINTO	DATE: 01/30/2012
CLIENT	DATE:

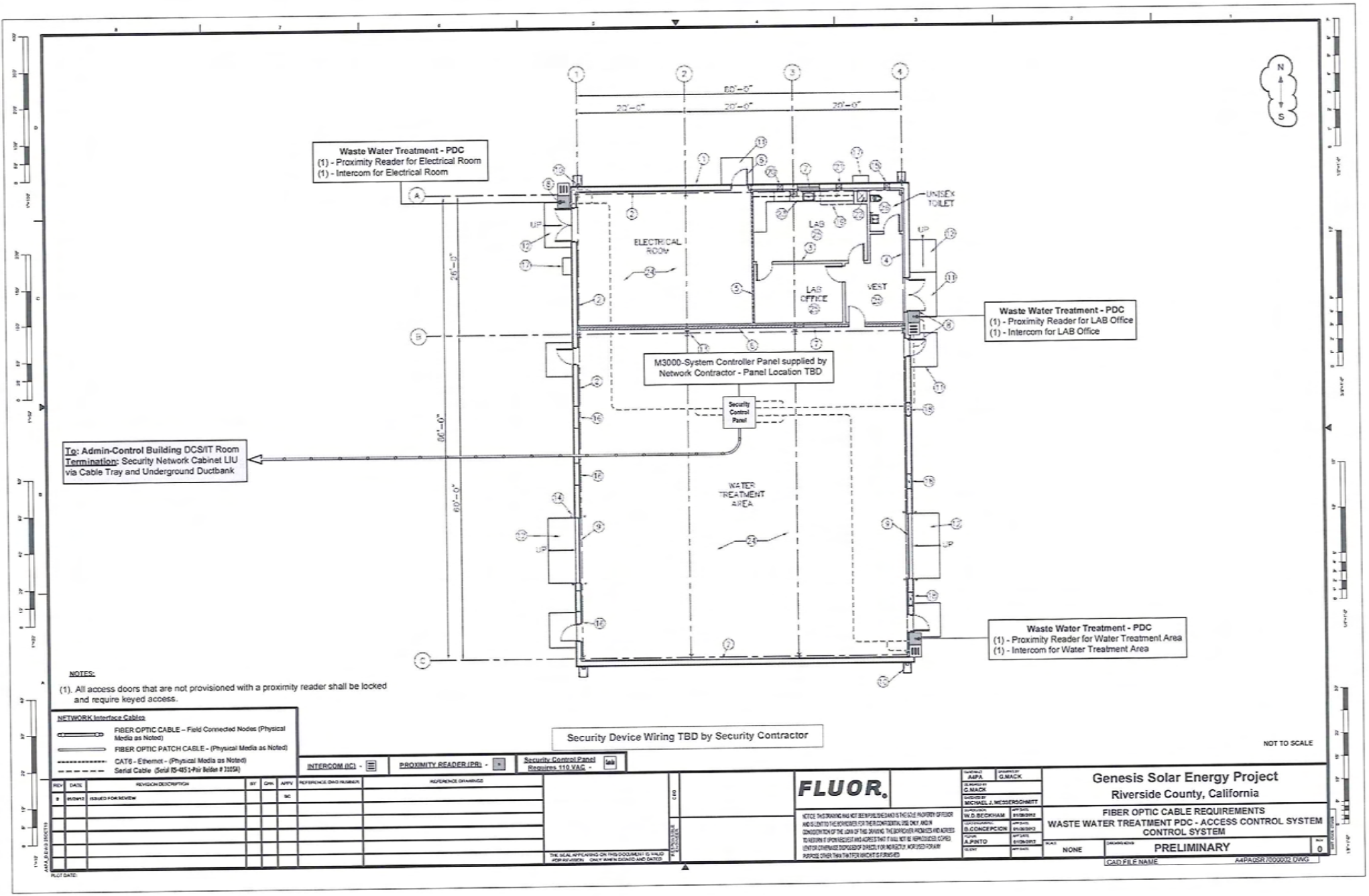
Genesis Solar Energy Project
Riverside County, California

FIBER OPTIC CABLE REQUIREMENTS
CONTROL ROOM - SURVEILLANCE / ACCESS CONTROL SYSTEM
CONTROL SYSTEM

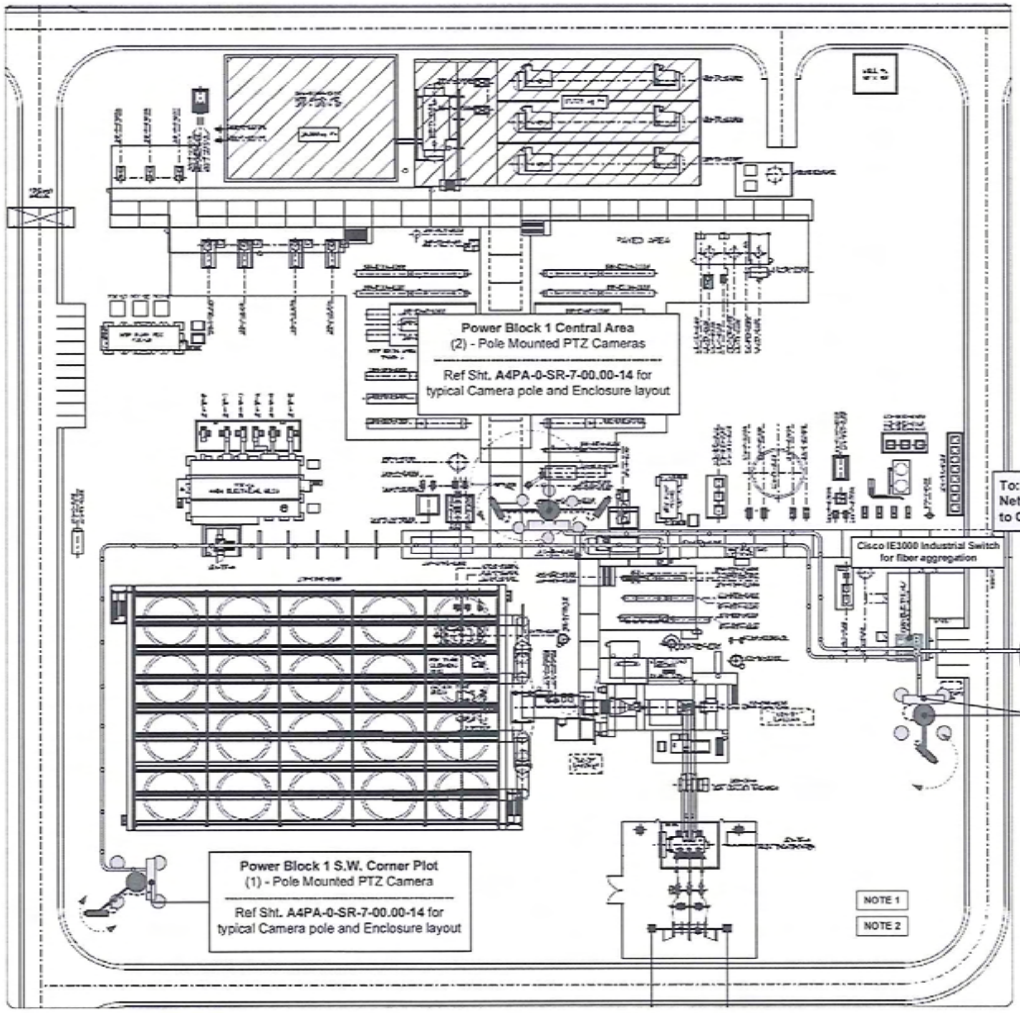
SCALE: NONE | DRAWING NAME: PRELIMINARY | REV: 0

CAD FILE NAME: A4PA0SR7000002.DWG

PLOT DATE:



Waste Water Treatment - PDC
(1) - Proximity Reader for Electrical Room
(1) - Intercom for Electrical Room
60'-0"
20'-0"
20'-0"
20'-0"
26'-0"
86'-0"
60'-0"
ELECTRICAL ROOM
LAB
LAB OFFICE
VEST
UNISEX TOILET
UP
Waste Water Treatment - PDC
(1) - Proximity Reader for LAB Office
(1) - Intercom for LAB Office
M3000-System Controller Panel supplied by Network Contractor - Panel Location TBD
Security Control Panel
WATER TREATMENT AREA
To: Admin-Control Building DCS/IT Room
Termination: Security Network Cabinet LIU via Cable Tray and Underground Ductbank
Waste Water Treatment - PDC
(1) - Proximity Reader for Water Treatment Area
(1) - Intercom for Water Treatment Area
NOTES:
(1). All access doors that are not provisioned with a proximity reader shall be locked and require keyed access.
NETWORK Interface Cables
FIBER OPTIC CABLE – Field Connected Nodes (Physical Media as Noted)
FIBER OPTIC PATCH CABLE - (Physical Media as Noted)
CAT6 - Ethernet - (Physical Media as Noted)
Serial Cable (Serial RS-485 1-Pair Belden # 3105A)
Security Device Wiring TBD by Security Contractor
NOT TO SCALE
INTERCOM (IC) -
PROXIMITY READER (PR) -
Security Control Panel Requires 110 VAC -
REV
DATE
REVISION DESCRIPTION
BY
CHK
APPV
REFERENCE DWG NUMBER
REFERENCE DRAWINGS
0
ISSUED FOR REVIEW
SC
FLUOR
Genesis Solar Energy Project
Riverside County, California
FIBER OPTIC CABLE REQUIREMENTS
WASTE WATER TREATMENT PDC - ACCESS CONTROL SYSTEM
CONTROL SYSTEM
NONE
PRELIMINARY
0
CAD FILE NAME
A4PA0SR7000002.DWG



Camera Specifications - (AXIS Q6032-C)

http://www.axis.com/corporate/press/press_material.htm?key=q6032c

NOTES:

(1). Power Block 1 and Power Block 2 shall be provisioned using PTZ Dome Network Cameras with integrated active cooling and reliable video surveillance designed for desert environments. The high-speed pan/tilt/zoom camera shall support powerful zoom and HDTV resolution of 1080p, operate in heat up to 167 °F with the ability to withstand sandstorms and conform to military standard, MIL-STD-810G. The Cameras shall support advanced climate control system and handle rapid temperature changes to eliminate condensation. The IP66 and NEMA 4X-rated camera is dust and waterproof, supports day and night functionality, wide dynamic range, H.264, automatic guard tour, alarm management and auto-tracking.

(2). Ref. Sht. A4PA-0-SR-7-00.00-14 for typical Camera Pole and Enclosure layout

NETWORK Interface Cables

- FIBER OPTIC CABLE – Field Connected Nodes (Physical Media as Noted)
- FIBER OPTIC PATCH CABLE - (Physical Media as Noted)
- CAT6 - Ethernet - (Physical Media as Noted)
- Serial Cable (Serial RS-485 1-Pair Belden # 3105A)

PTZ CAM (PTZ) - BOLLARD - SECURITY CAMERA POLE -

Security Device Wiring TBD by Security Contractor

NOT TO SCALE

REV	DATE	REVISION DESCRIPTION	BY	CHK	APPV	REFERENCE DWG NUMBER	REFERENCE DRAWINGS
0	9/10/2012	ISSUED FOR REVIEW			DC		

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PROJECT A4PA	DRAWN BY G.MACK
DESIGNED BY C.MACK	
CHECKED BY MICHAEL J. MOSSERSCHMITT	
APPROVED BY W.D. BECKHAM	APP DATE 9/10/2012
LEAD ENGINEERING B.CONCEPCION	APP DATE 9/10/2012
PLANT A.PINTO	APP DATE 9/10/2012
MANAGER	APP DATE

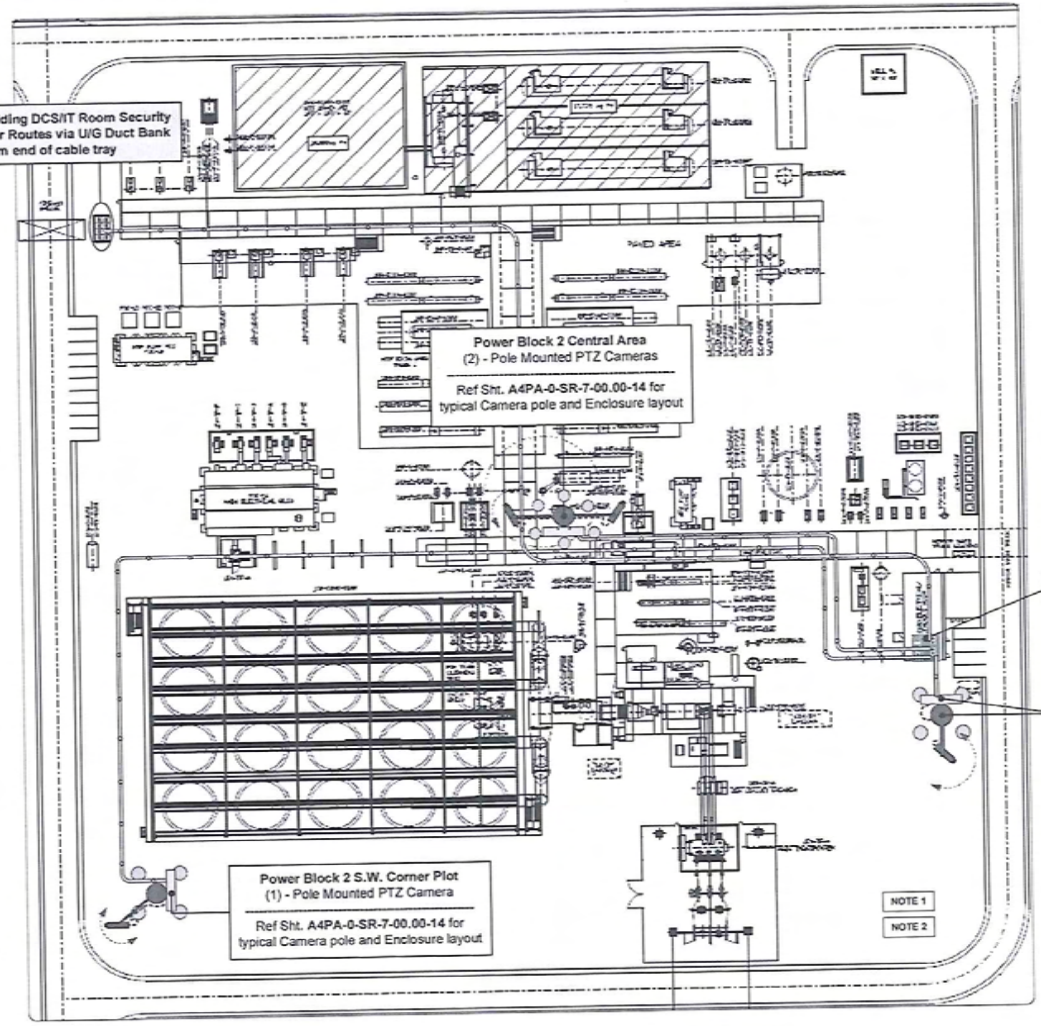
Genesis Solar Energy Project
Riverside County, California

FIBER OPTIC CABLE REQUIREMENTS
POWER BLOCK UNIT # 1 - CCTV SYSTEM
CONTROL SYSTEM

SCALE: NONE | DRAWING NAME: PRELIMINARY | REV: 0

CAD FILE NAME: A4PA0SR7000002.DWG

PLOT DATE:



Camera Specifications - (AXIS Q6032-C)

http://www.axis.com/corporate/press/press_material.htm?key=q6032c

NOTES:

(1). Power Block 1 and Power Block 2 shall be provisioned using PTZ Dome Network Cameras with integrated active cooling and reliable video surveillance designed for desert environments. The high-speed pan/tilt/zoom camera shall support powerful zoom and HDTV resolution of 1080p, operate in heat up to 167 °F with the ability to withstand sandstorms and conform to military standard, MIL-STD-810G. The Cameras shall support advanced climate control system and handle rapid temperature changes to eliminate condensation. The IP66 and NEMA 4X-rated camera is dust and waterproof, supports day and night functionality, wide dynamic range, H.264, automatic guard tour, alarm management and auto-tracking.

(2). Ref. Sht. A4PA-0-SR-7-00.00-14 for typical Camera Pole and Enclosure layout

NETWORK Interface Cables

- FIBER OPTIC CABLE – Field Connected Nodes (Physical Media as Noted)
- FIBER OPTIC PATCH CABLE - (Physical Media as Noted)
- CAT6 - Ethernet - (Physical Media as Noted)
- Serial Cable (Serial RS-485 1-Pair Belden # 3105A)

Security Device Wiring TBD by Security Contractor

NOT TO SCALE

PTZ CAM (PTZ) - BOLLARD - SECURITY CAMERA POLE -

REV	DATE	REVISION DESCRIPTION	BY	CHK	APPV	REFERENCE DWG NUMBER	REFERENCE DRAWINGS
0	01/29/12	ISSUED FOR REVIEW			BC		

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CONTRACT	A4PA
DRAWN BY	G.MACK
DESIGNED BY	G.MACK
CHECKED BY	MICHAEL J. MESSERSCHMITT
APPROVED BY	W.D.BECKHAM
CLIENT MANAGER	B.CONCEPCION
FLUOR	A.PINTO

Genesis Solar Energy Project

Riverside County, California

FIBER OPTIC CABLE REQUIREMENTS
POWER BLOCK UNIT # 2 - CCTV SYSTEM
CONTROL SYSTEM

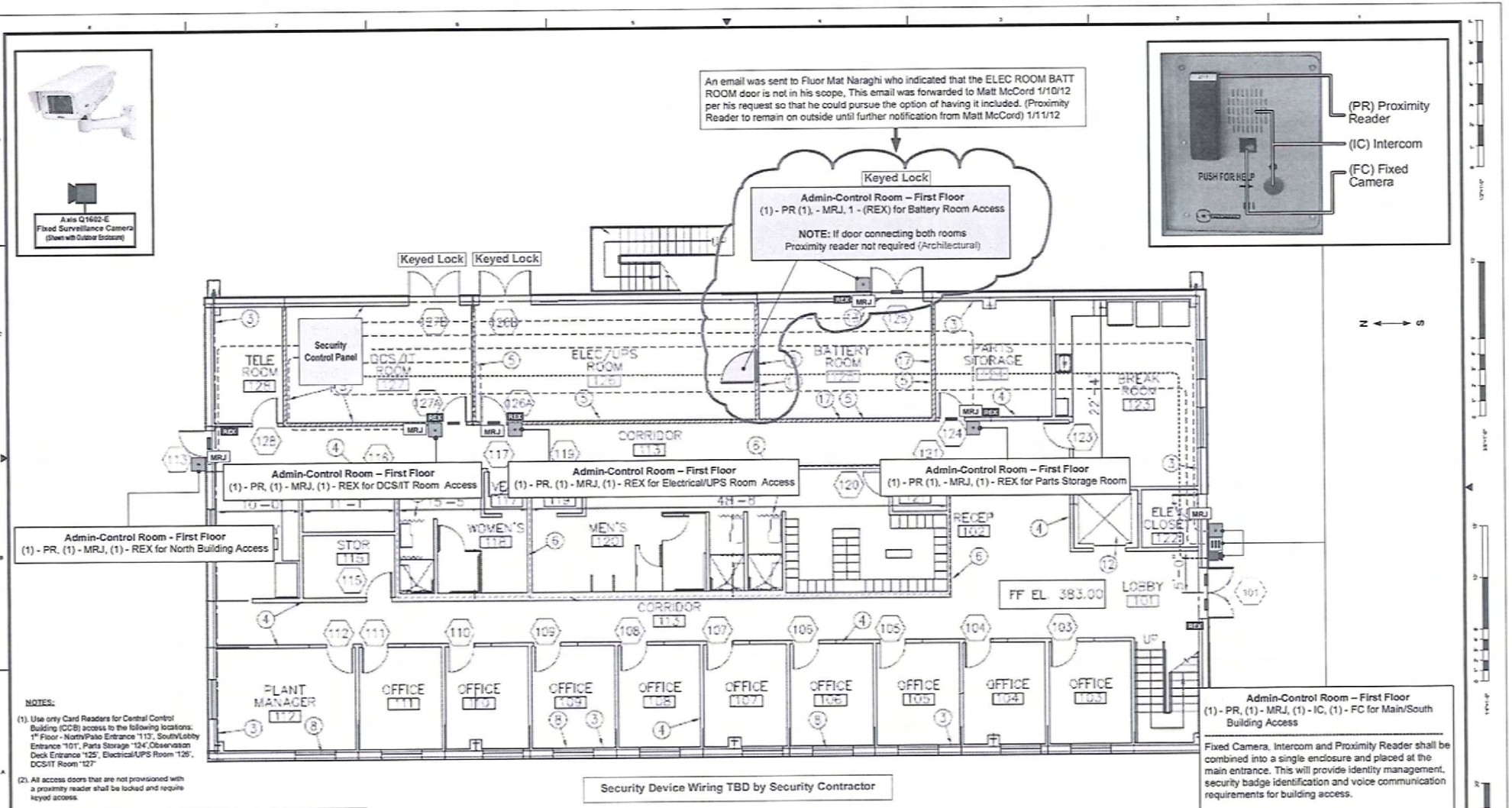
SCALE: NONE

DRAWING NUMBER: PRELIMINARY

REV: 0

CAD FILE NAME: A4PA0SR7000002.DWG

PLOT DATE:



NOTES:

(1). Use only Card Readers for Central Control Building (CCB) access to the following locations: 1st Floor - North/Patio Entrance '113', South/Lobby Entrance '101', Parts Storage '124', Observation Deck Entrance '125', Electrical/UPS Room '126', DCS/IT Room '127'

(2). All access doors that are not provisioned with a proximity reader shall be locked and require keyed access.

NETWORK Interface Cables

- FIBER OPTIC CABLE – Field Connected Nodes (Physical Media as Noted)
- FIBER OPTIC PATCH CABLE - (Physical Media as Noted)
- CAT5 - Ethernet - (Physical Media as Noted)
- Serial Cable (Serial RS-485 1-Pair Belden # 3105A)

INTERCOM (IC) - FIXED CAM (FC) - PROXIMITY READER (PR) - Security Control Panel Requires 110 VAC -

Electric/Magnetic Door Locks: Door Contacts and or Remote Relays as required by Security Contractor

MRJ Micro/Reader Junction Box (MRJ): Centralized wiring panel for Readers and Door Locks. Requires 110 VAC

REX Request to Exit (REX), Push Button Relay for requests to exit.

NOT TO SCALE

REV	DATE	REVISION DESCRIPTION	BY	CHK	APPV	REFERENCE DWG NUMBER	REFERENCE DRAWINGS
0	01/30/12	ISSUED FOR REVIEW			BC		

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CLIENT/PROJ.	A4PA
DRAWN BY	G.MACK
DESIGNED BY	C.MACK
CHECKED BY	MICHAEL J. MESSERSCHMITT
SUPERVISOR	W.D.BECKHAM
APP DATE	01/30/2012
CLIENT DRAWING	B.CONCEPCION
APP DATE	01/30/2012
FLUOR	A.PINTO
APP DATE	01/30/2012
CLIENT	
APP DATE	

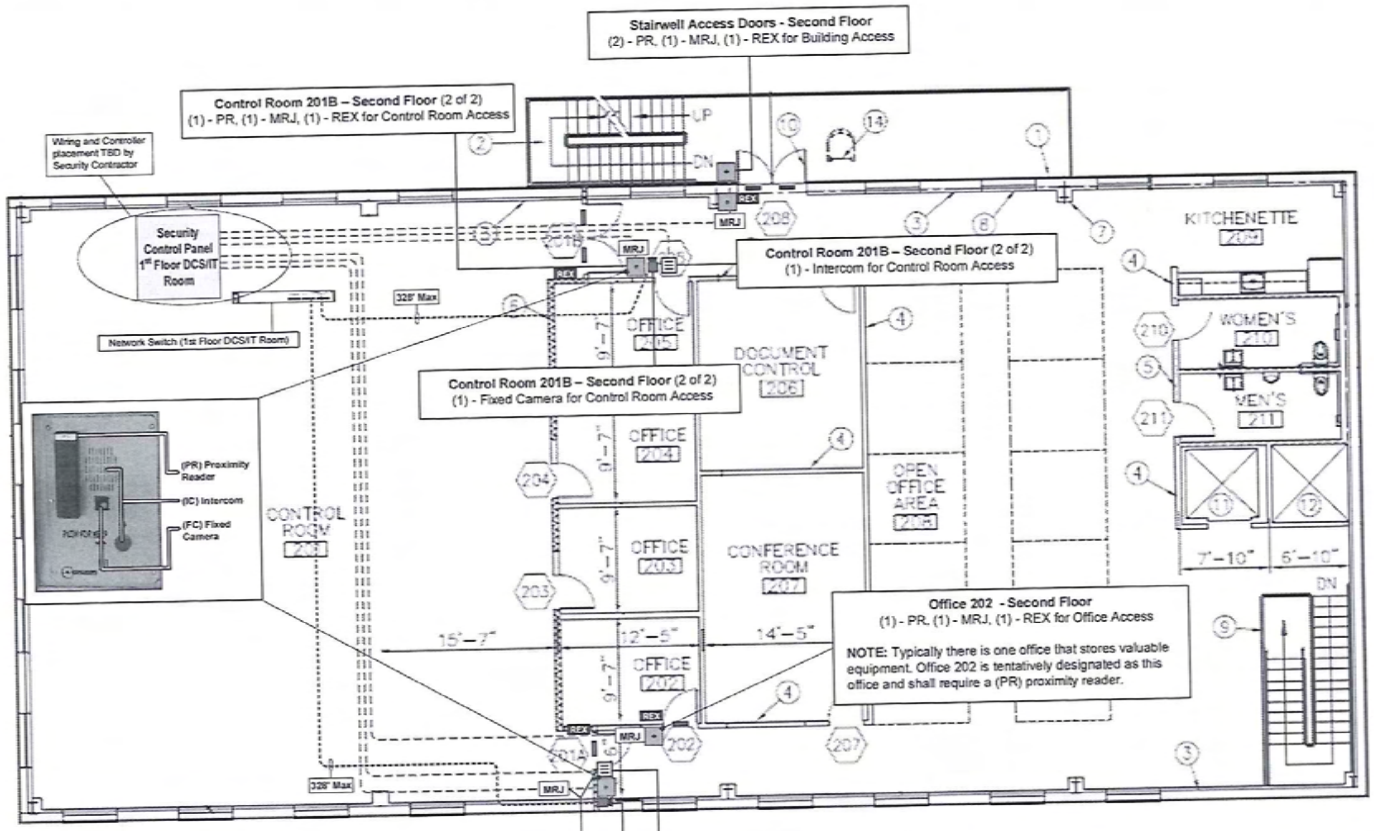
Genesis Solar Energy Project

Riverside County, California

FIBER OPTIC CABLE REQUIREMENTS
CONTROL ROOM 1st FLOOR - ACCESS CONTROL SYSTEM (ACS) CONTROL SYSTEM

SCALE: NONE | DRAWING NUMBER: A4PA-0-SR-7-00.00-09 | REV: 0

CAD FILE: PRELIMINARY | SR7000002.DWG



NOTES:

(1). Use only Card Readers for Central Control Building (CCB) access to the following locations: Control Room Entrance - 201B and 201A, Stairwell Access Door - 208, Office - 202

(2) All Doors that are not provisioned with a Proximity Reader shall be locked and require keyed access

NOT TO SCALE

Security Device Wiring TBD by Security Contractor

NETWORK Interface Cables

- FIBER OPTIC CABLE – Field Connected Nodes (Physical Media as Noted)
- FIBER OPTIC PATCH CABLE - (Physical Media as Noted)
- CAT6 - Ethernet - (Physical Media as Noted)
- Serial Cable (Serial RS-485 1-Pair Belden # 3105A)

INTERCOM (IC) - | FIXED CAM (FC) - | PROXIMITY READER (PR) - | Security Control Panel Requires 110 VAC - | Lab

Electric/Magnetic Door Locks. Door Contacts and or Remote Relays as required by Security Contractor

MRJ Micro/Reader Junction Box (MRJ) Centralized wiring panel for Readers and Door Locks. Requires 110 VAC

REX Request to Exit (REX). Push Button Relay for requests to exit.

REV	DATE	REVISION DESCRIPTION	BY	CHK	APPV	REFERENCE DWG NUMBER	REFERENCE DRAWINGS
0	8/28/12	ISSUED FOR REVIEW			BC		

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CONTRACT A4PA | DRAWN BY G.MACK
DRAWING BY G.MACK
CHECKED BY MICHAEL J. MESSERSCHMITT
INTERVIEW W.D.BECKHAM | APP DATE 01/28/2012
LEAD DESIGNER B.CONCEPCION | APP DATE 01/28/2012
FLOOR A.PINTO | APP DATE 01/30/2012
CLIENT | APP DATE

Genesis Solar Energy Project

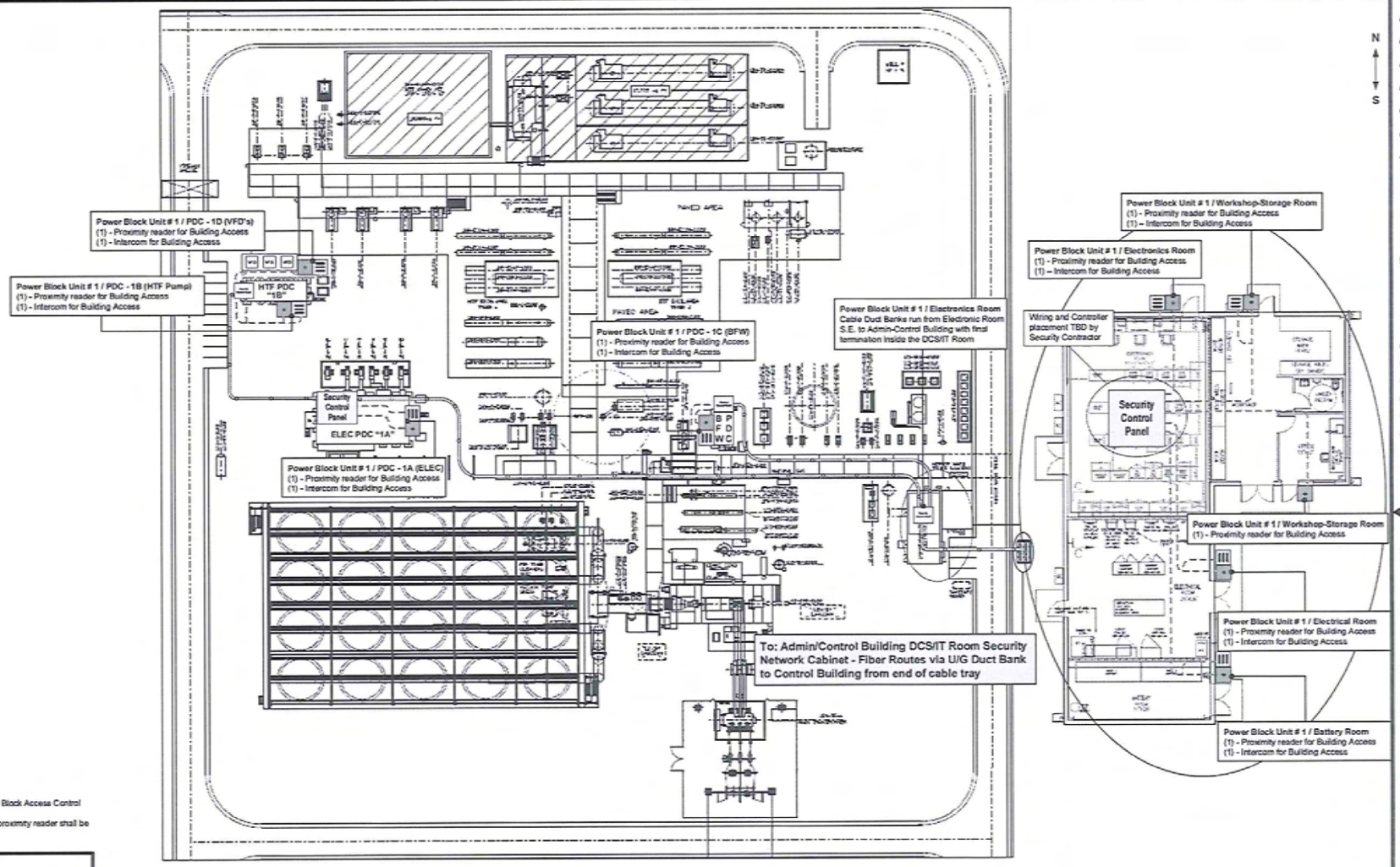
Riverside County, California

FIBER OPTIC CABLE REQUIREMENTS
CONTROL ROOM 2nd FLOOR - ACCESS CONTROL SYSTEM (ACS)
CONTROL SYSTEM

SCALE NONE | DRAWING NUMBER PRELIMINARY | REV 0

CAD FILE NAME A4PA0SR7000002.DWG

PLOT DATE:



Security Device Wiring TBD by Security Contractor

NOTES:

(1). Use Proximity Readers and Intercoms for Power Block Access Control

(2). All access doors that are not provisioned with a proximity reader shall be locked and require keyed access.

NETWORK Interface Cables

- FIBER OPTIC CABLE – Field Connected Nodes (Physical Media as Noted)
- FIBER OPTIC PATCH CABLE - (Physical Media as Noted)
- CAT6 - Ethernet - (Physical Media as Noted)
- Serial Cable (Serial RS-485 1-Pair Belden # 3105A)

POWER 120v | 480v / 12Kva (as noted) | INTERCOM (IC) - | PROXIMITY READER (PR) - | Security Control Panel Requires 110 VAC -

NOT TO SCALE

REV	DATE	REVISION DESCRIPTION	BY	CHK	APPV	REFERENCE DWG NUMBER	REFERENCE DRAWINGS
0	01/30/12	ISSUED FOR REVIEW			BC		

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CONTRACT: A4PA | DRAWING BY: G.MACK
DESIGNED BY: G.MACK
APPROVED BY: MICHAEL J. MESSERSCHMITT
SUPERVISOR: W.D.BECKHAM | APP DATE: 01/26/2012
LEAD DISCIPLINE: B.CONCEPCION | APP DATE: 01/26/2012
PLANNER: A.PINTO | APP DATE: 01/26/2012
CLIENT: | APP DATE:

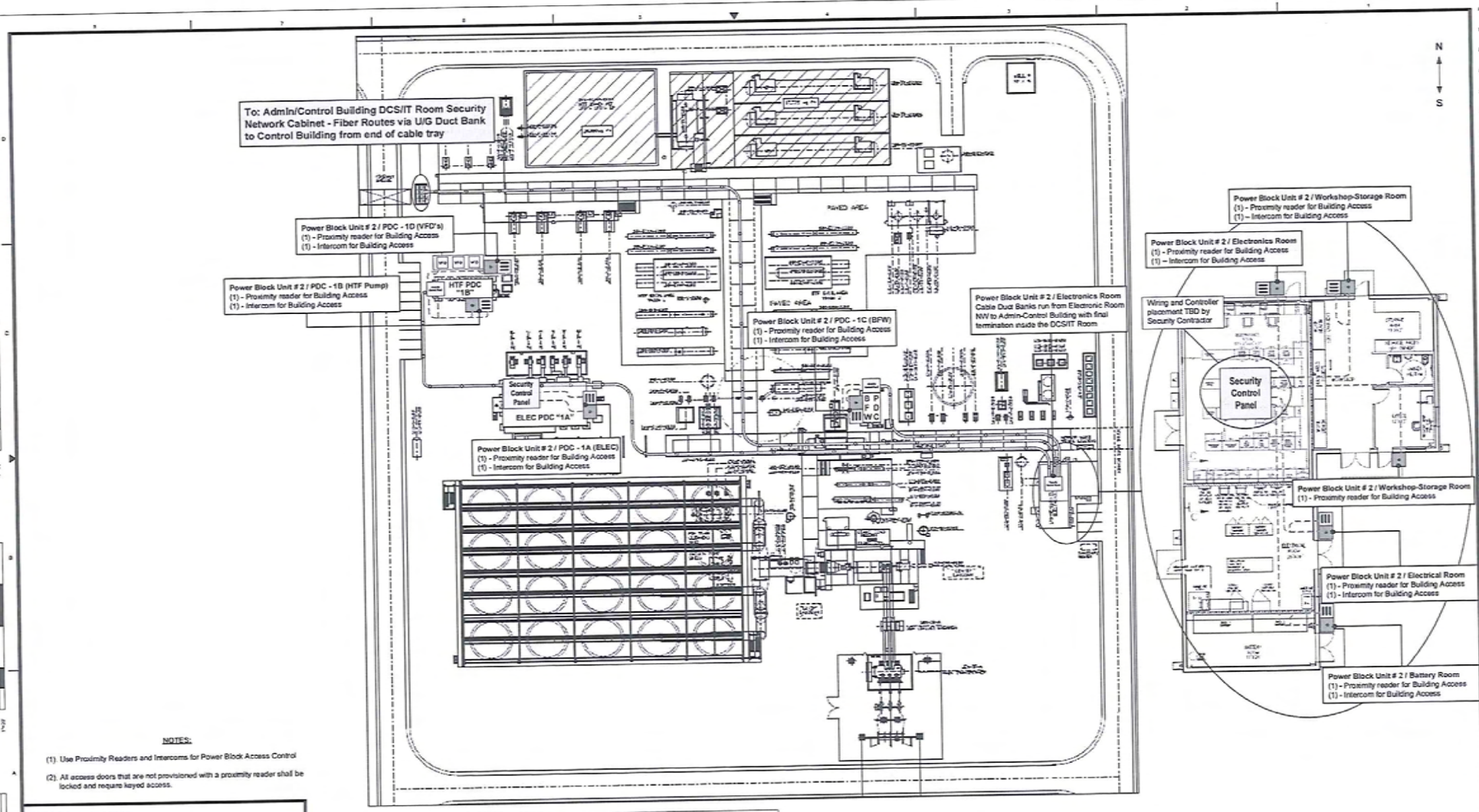
Genesis Solar Energy Project
Riverside County, California

FIBER OPTIC CABLE REQUIREMENTS
POWER BLOCK UNIT # 1 - ACCESS CONTROL SYSTEM (ACS)
CONTROL SYSTEM

SCALE: NONE | DRAWING NUMBER: PRELIMINARY | REV: 0

CAD FILE NAME: A4PA0SR7000002.DWG

PLOT DATE:



Security Device Wiring TBD by Security Contractor

NOT TO SCALE

NOTES:

(1). Use Proximity Readers and Intercoms for Power Block Access Control

(2). All access doors that are not provisioned with a proximity reader shall be locked and require keyed access.

NETWORK Interface Cables

- FIBER OPTIC CABLE – Field Connected Nodes (Physical Media as Noted)
- FIBER OPTIC PATCH CABLE - (Physical Media as Noted)
- CAT6 - Ethernet - (Physical Media as Noted)
- Serial Cable (Serial RS-485 1-Pair Belden # 3105A)

INTERCOM (IC) -

PROXIMITY READER (PR) -

Security Control Panel Requires 110 VAC -

REV	DATE	REVISION DESCRIPTION	BY	CHK	APPV	REFERENCE DWG NUMBER	REFERENCE DRAWINGS
0	01/28/12	ISSUED FOR REVIEW			BC		

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DRAWN BY: AAPA	CHECKED BY: G.MACK
DESIGNED BY: G.MACK	
CHECKED BY: MICHAEL J. MESSERSCHMITT	
INSTRUMENT: W.D.BECKHAM	APP DATE: 01/28/2012
MECHANICAL: B.CONCEPCION	APP DATE: 01/28/2012
PLANT: A.PINTO	APP DATE: 01/28/2012
CLIENT:	APP DATE:

Genesis Solar Energy Project
Riverside County, California

FIBER OPTIC CABLE REQUIREMENTS
POWER BLOCK UNIT # 2 - ACCESS CONTROL SYSTEM (ACS)
CONTROL SYSTEM

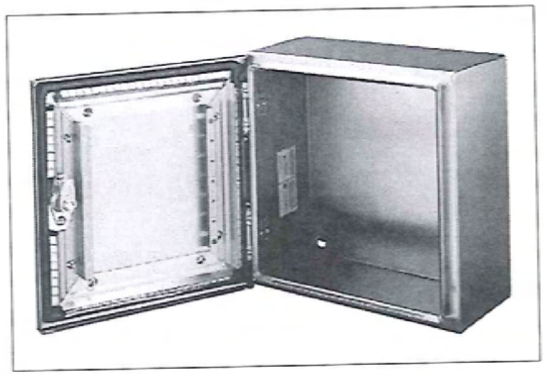
SCALE: NONE

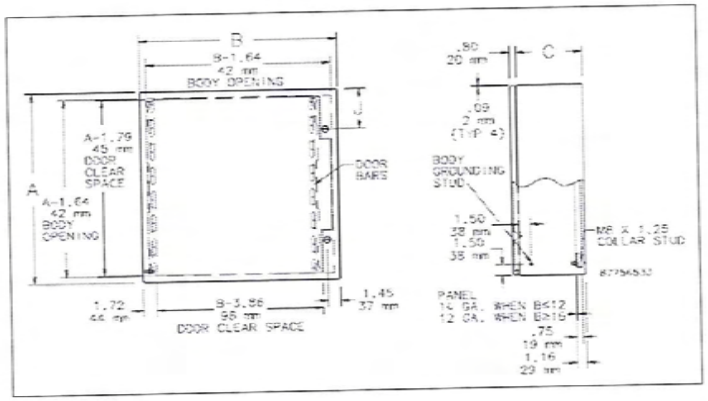
DRAWING NUMBER: PRELIMINARY

REV: 0

CAD FILE NAME: A4PA0SR7000002.DWG

PLOT DATE:





Catalog Number	AxBxC in./mm	Door Gauge	Body Gauge	Panel	Conductive Panel Catalog Number	Panel Size D x E in./mm	Mounting G x H in./mm	Latches Qty.	J in./mm
CSD362412EMCSS	36.00 x 24.00 x 12.00 914 x 610 x 305	14	16	CP3624	CP3624G	34.20 x 22.20 869 x 564	34.50 x 22.50 876 x 572	2	5.00 127

NOTES:

(1). Due to extreme environmental conditions it is imperative that all equipment installed in a field mounted enclosure is fully capable of withstanding temps in excess of 140°.

(2). All outdoor Enclosures shall be provisioned with sun shields

NETWORK Interface Cables

- FIBER OPTIC CABLE – Field Connected Nodes (Physical Media as Noted)
- FIBER OPTIC PATCH CABLE - (Physical Media as Noted)
- CAT6 - Ethernet - (Physical Media as Noted)
- Serial Cable (Serial RS-485 1-Pair Belden # 3105A)

Security Device Wiring TBD by Security Contractor

NOT TO SCALE

REV	DATE	REVISION DESCRIPTION	BY	CHK	APPV	REFERENCE DWG NUMBER	REFERENCE DRAWINGS
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AUTHORIZED: A4PA	DRAWN BY: G.MACK
DESIGNED BY: G.MACK	
APPROVED BY: MICHAEL J. MESSERSCHMITT	
SUPERVISOR: W.D.BECKHAM	APP DATE: 01/26/2012
APPD DISCIPLINE: B.DONCEPCION	APP DATE: 01/26/2012
FLUOR: A.PINTO	APP DATE: 01/26/2012
CLIENT:	APP DATE:

Genesis Solar Energy Project

Riverside County, California

FIBER OPTIC CABLE REQUIREMENTS
FIELD SURVEILLANCE CAMERA EQUIPMENT CABINETS
CONTROL SYSTEM

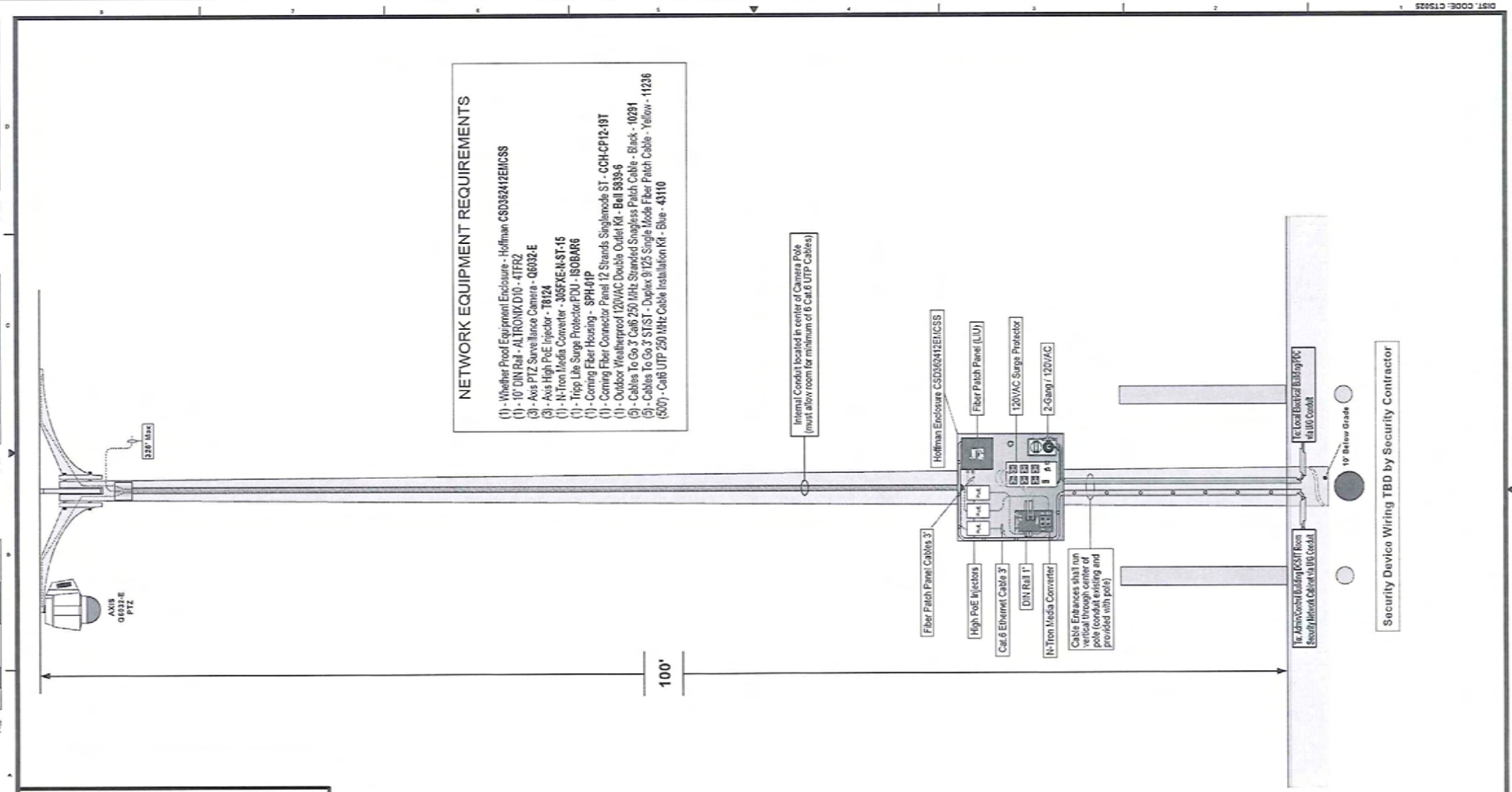
SCALE: NONE

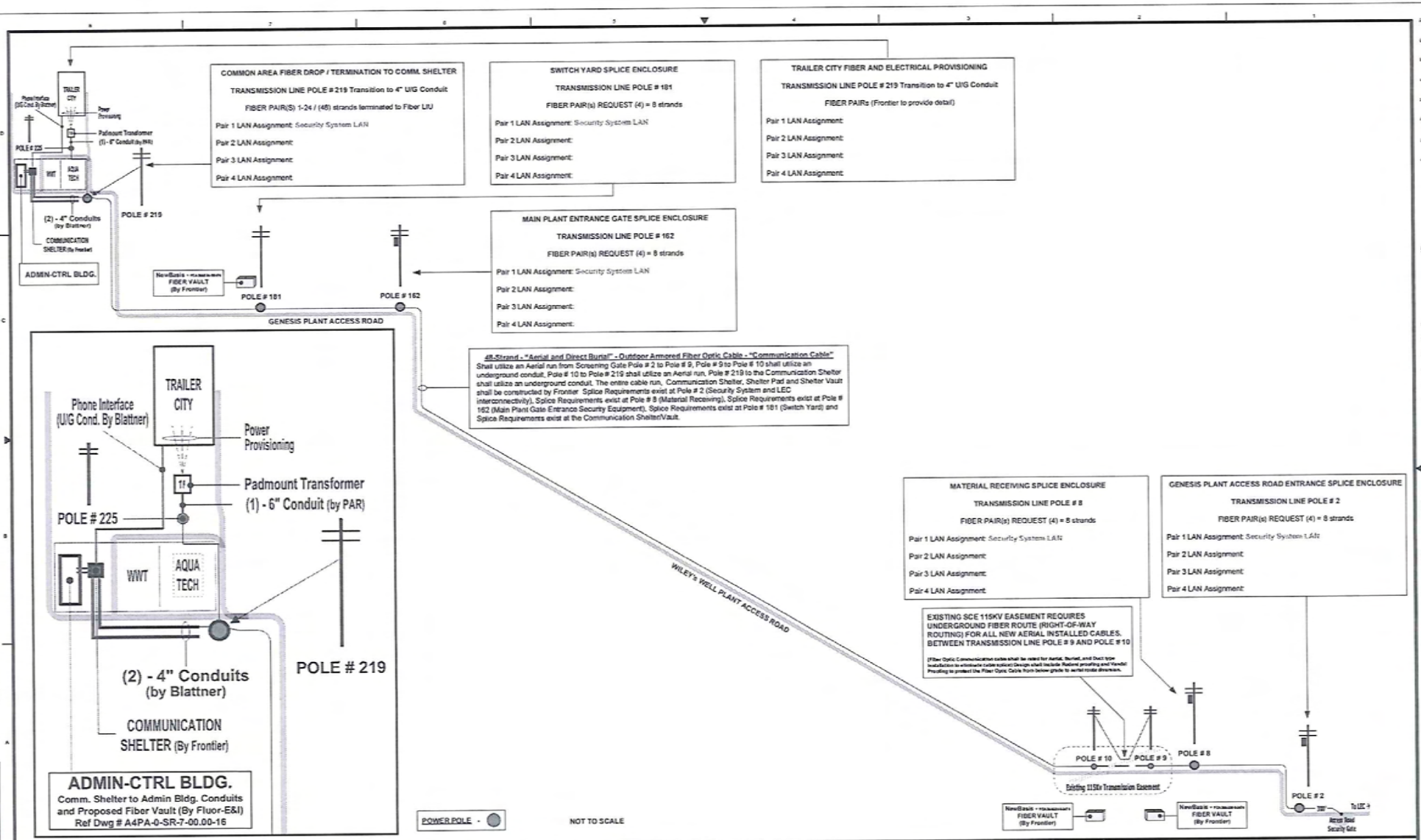
DRAWING NAME: PRELIMINARY

REV: 0

CAD FILE NAME: A4PA0SR7000002.DWG

PLOT DATE:


NETWORK EQUIPMENT REQUIREMENTS
(1) - Whether Proof Equipment Enclosure - Hoffman CSD362412EMCSS
(1) - 10" DIN Rail - ALTRONIX D10 - 4TFR2
(3) - Axis PTZ Surveillance Camera - Q6032-E
(3) - Axis High PoE Injector - T8124
(1) - N-Tron Media Converter - 305FXE-N-ST-15
(1) - Tripp Lite Surge Protector PDU - ISOBAR6
(1) - Corning Fiber Housing - SPH-01P
(1) - Corning Fiber Connector Panel 12 Strands Singlemode ST - CCH-CP12-19T
(1) - Outdoor Weatherproof 120VAC Double Outlet Kit - Bell 5839-6
(5) - Cables To Go 3' Cat6 250 MHz Stranded Snagless Patch Cable - Black - 10281
(5) - Cables To Go 3' ST/ST - Duplex 9/125 Single Mode Fiber Patch Cable - Yellow - 11236
(500') - Cat6 UTP 250 MHz Cable Installation Kit - Blue - 43110
Internal Conduit located in center of Camera Pole (must allow room for minimum of 6 Cat.6 UTP Cables)
Hoffman Enclosure CSD362412EMCSS
Fiber Patch Panel (LIU)
120VAC Surge Protector
2-Gang / 120VAC
226' Max
AXIS Q6032-E PTZ
100'
Fiber Patch Panel Cables 3'
High PoE Injectors
Cat.6 Ethernet Cable 3'
DIN Rail 1'
N-Tron Media Converter
Cable Entrances shall run vertical through center of pole (conduit existing and provided with pole)
To: Local Electrical Building PRC Kit 100 Conduit
To: Admin/Control Building (KSM) Fiber Security Network Cabinet via UG Conduit
10' Below Grade
Security Device Wiring TBD by Security Contractor
NETWORK Interface Cables
FIBER OPTIC CABLE – Field Connected Nodes (Physical Media as Noted)
FIBER OPTIC PATCH CABLE - (Physical Media as Noted)
CAT6 - Ethernet - (Physical Media as Noted)
Serial Cable / Twisted Pair - (Serial RS-485 1-Pair Belden # 3105A)
POWER 120v 480v / 12Kva (as noted)
SECURITY CAMERA POLE -
BOLLARD -
NOT TO SCALE
FLUOR
Genesis Solar Energy Project
Riverside County, California
FIBER OPTIC CABLE REQUIREMENTS
TYPICAL CCTV CAMERA MOUNTING POLE
CONTROL SYSTEM
PRELIMINARY
NONE
0



REV	DATE	REVISION DESCRIPTION	BY	CHK	APPV	REFERENCE DWG NUMBER	REFERENCE DRAWINGS
0	03/29/12	ISSUED FOR APPROVAL			DC		

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PLANT/UNIT	A4PA
DRAWN BY	G.MACK
DESIGNED BY	G.MACK
ENGINEER-IN-CHARGE	MICHAEL J. MESSERSCHMITT
ENGINEERING MANAGER	W.D.BECKHAM
LEAD ENGINEER	S.CONCEPCION
PLANT ENGINEER	A.PINTO
CLIENT	
APP DATE	01/03/2012
APP DATE	01/03/2012
APP DATE	01/03/2012
APP DATE	01/03/2012
APP DATE	

Genesis Solar Energy Project

Riverside County, California

FIBER OPTIC CABLE REQUIREMENTS
COMMUNICATION FIBER 24-PAIR - END TO END
CONTROL SYSTEM

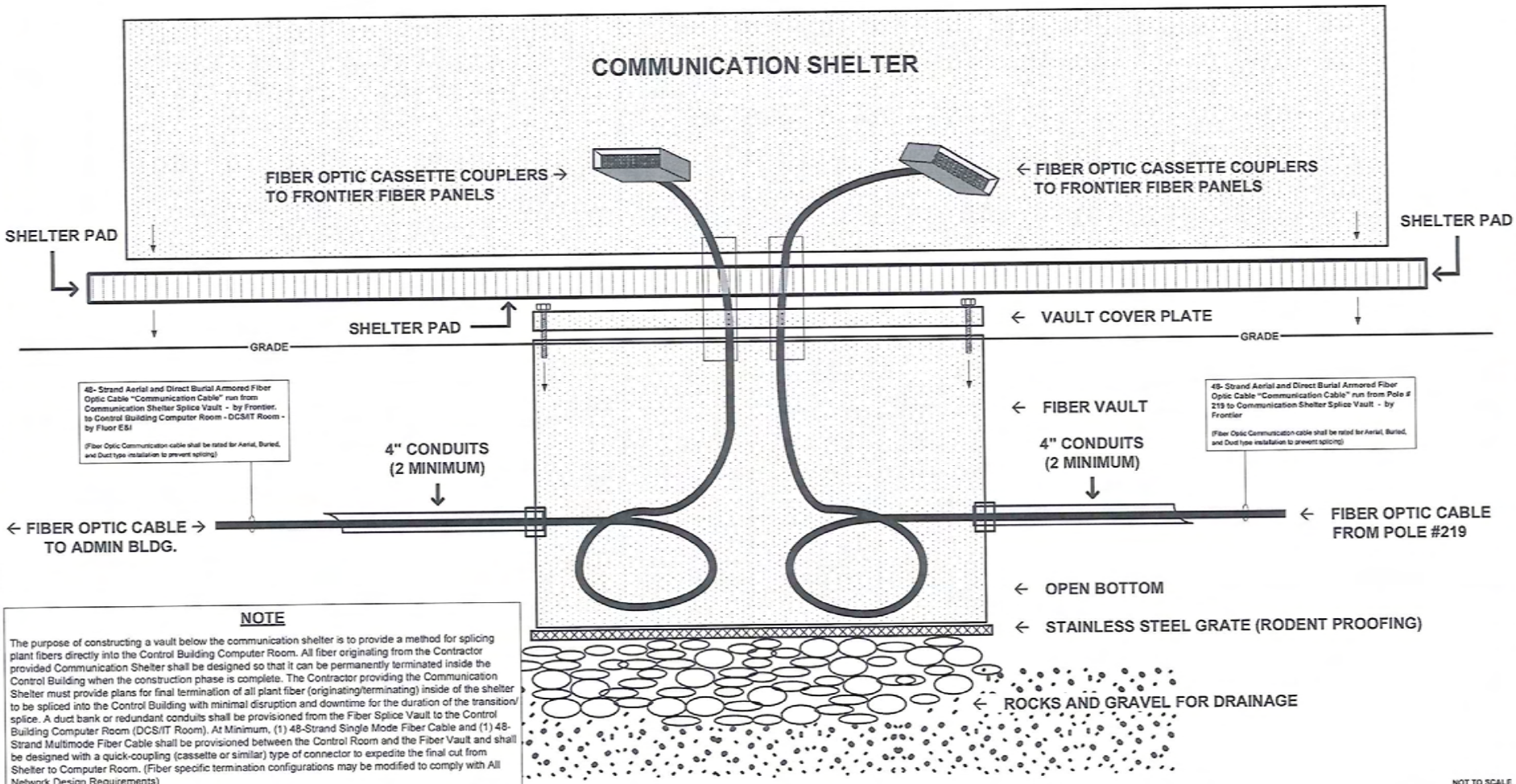
SCALE: NONE

DRAWING NUMBER: PRELIMINARY

REV: 0

CAD FILE NAME: A4PADSR 7000002.DWG

PLOT DATE:



NOTE

The purpose of constructing a vault below the communication shelter is to provide a method for splicing plant fibers directly into the Control Building Computer Room. All fiber originating from the Contractor provided Communication Shelter shall be designed so that it can be permanently terminated inside the Control Building when the construction phase is complete. The Contractor providing the Communication Shelter must provide plans for final termination of all plant fiber (originating/terminating) inside of the shelter to be spliced into the Control Building with minimal disruption and downtime for the duration of the transition/splice. A duct bank or redundant conduits shall be provisioned from the Fiber Splice Vault to the Control Building Computer Room (DCS/IT Room). At Minimum, (1) 48-Strand Single Mode Fiber Cable and (1) 48-Strand Multimode Fiber Cable shall be provisioned between the Control Room and the Fiber Vault and shall be designed with a quick-coupling (cassette or similar) type of connector to expedite the final cut from Shelter to Computer Room. (Fiber specific termination configurations may be modified to comply with All Network Design Requirements)

REV	DATE	REVISION DESCRIPTION	BY	CHK	APPV	REFERENCE DWG NUMBER	REFERENCE DRAWINGS
0	01/26/13	ISSUED FOR REVIEW			BC		

THE SEAL APPEARING ON THIS DOCUMENT IS VALID FOR REVISION ONLY WHEN SIGNED AND DATED

FLUOR

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CLIENT: A4PA	DRAWN BY: G.MACK
DESIGNED BY: G.MACK	
CHECKED BY: MICHAEL J. MESSERSCHMITT	
SUPERVISOR: W.D.BECKHAM	APP DATE: 01/26/2013
LEAD DRAWING: B.CONCEPCION	APP DATE: 01/26/2013
PLANT: A.PINTO	APP DATE: 01/26/2013
CLIENT	APP DATE

Genesis Solar Energy Project
Riverside County, California

FIBER OPTIC CABLE REQUIREMENTS
COMMUNICATION SHELTER
CONTROL SYSTEM

SCALE: NONE
DRAWING NUMBER: PRELIMINARY
REV: 0
CAD FILE NAME: A4PA0SR7000002.DWG

SAMPLE CERTIFICATION (Attachment A)

Affidavit of Compliance for Project Owners

I, _____

(Name of person signing affidavit)(Title)

do hereby certify that background investigations to ascertain the accuracy of the identity and employment history of all employees of:

_____

(Company name)

for employment at:

_____

(Project name and location)

have been conducted as required by the California Energy Commission Decision for the above-named project.

_____

(Signature of Officer or Agent)

Dated this _____ day of _____, 20 _____.

THIS AFFIDAVIT OF COMPLIANCE SHALL BE APPENDED TO THE PROJECT SECURITY PLAN AND SHALL BE RETAINED AT ALL TIMES AT THE PROJECT SITE FOR REVIEW BY THE CALIFORNIA ENERGY COMMISSION COMPLIANCE PROJECT MANAGER.

SAMPLE CERTIFICATION (Attachment B)

Affidavit of Compliance for Contractors

I, _____

(Name of person signing affidavit)(Title)

do hereby certify that background investigations to ascertain the accuracy of the identity and employment history of all employees of:

_____

(Company name)

for contract work at:

_____

(Project name and location)

have been conducted as required by the California Energy Commission Decision for the above-named project.

_____

(Signature of Officer or Agent)

Dated this _____ day of _____, 20 _____.

THIS AFFIDAVIT OF COMPLIANCE SHALL BE APPENDED TO THE PROJECT SECURITY PLAN AND SHALL BE RETAINED AT ALL TIMES AT THE PROJECT SITE FOR REVIEW BY THE CALIFORNIA ENERGY COMMISSION COMPLIANCE PROJECT MANAGER.

SAMPLE CERTIFICATION (Attachment C)

Affidavit of Compliance for Hazardous Materials Transport Vendors

I,

_____

(Name of person signing affidavit)(Title)

do hereby certify that the below-named company has prepared and implemented security plans in conformity with 49 CFR 172.880 and has conducted employee background investigations in conformity with 49 CFR 172, subparts A and B:

_____

(Company name)

for hazardous materials delivery to:

_____

(Project name and location)

as required by the California Energy Commission Decision for the above-named project.

_____

(Signature of Officer or Agent)

Dated this _____ day of _____, 20 _____.

THIS AFFIDAVIT OF COMPLIANCE SHALL BE APPENDED TO THE PROJECT SECURITY PLAN AND SHALL BE RETAINED AT ALL TIMES AT THE PROJECT SITE FOR REVIEW BY THE CALIFORNIA ENERGY COMMISSION COMPLIANCE PROJECT MANAGER.

The information transmitted is intended only for the person or entity to which it is addressed and may contain proprietary, business-confidential and/or privileged material. If you are not the intended recipient of this message you are hereby notified that any use, review, retransmission, dissemination, distribution, reproduction or any action taken in reliance upon this message is prohibited. If you received this in error, please contact the sender and delete the material from any computer.

Any views expressed in this message are those of the individual sender and may not necessarily reflect the views of the company.

OHA Hawaiian Registry Application Form

Please type or print clearly. Complete this form in its entirety. All information will be kept confidential.

STAFF USE ONLY
OO
HR

FIRST NAME MIDDLE NAME LAST NAME

OTHER NAMES USED (i.e., birth name, etc.)

HOME ADDRESS

MAILING ADDRESS (If different from home)

DAYTIME TELEPHONE NUMBER

PRIMARY EMAIL ADDRESS

DATE OF BIRTH (MM/DD/YYYY) PLACE OF BIRTH

☐ MALE ☐ FEMALE (Check Box)

USE THIS ☑ CHECKLIST

to confirm that you've collected all required documents.

- ☐ Application form for each applicant: "Signed and dated" (DO NOT FAX)
- ☐ Parental signature required for applicants 17 years of age and under
- ☐ Birth Certificate: a photo-copy of your birth certificate stating Hawaiian Ancestry
- ☐ Photo ID: to identify the applicant, and a
- ☐ Color print or digital photograph for your new card
  You can e-mail ALL your documents; save the photo as JPEG format and send to hireg@oha.org

IF YOUR BIRTH CERTIFICATE DOESN'T STATE HAWAIIAN:

- ☐ Provide document(s) that link your Hawaiian Ancestry through your *biological parentage.

**Adoption information can be obtained:*
Family Court, Division of Legal Research and Adoption Records
In the circuit in which the adoption took place.
1st 'Oahu - 2nd Maui, Moloka'i and Lana'i - 3rd Hawai'i - 5th Kaua'i.

Original birth certificates can be obtained:
State of Hawai'i - Department of Health Vital Records Section www.hawaii.gov/doh
(808) 586-4533 1250 Punchbowl Street, Room 103, Honolulu, HI 96813

FOR OFFICE USE ONLY:

Ancestry Verification

State Birth Certificate Number Date Registered w/DOH
Note:

State Birth Certificate Number Date Registered w/DOH
Note:

State Birth Certificate Number Date Registered w/DOH
Note:

Additional information

Card Renewal

Lost Damaged Expiried Date

I certify that I am Hawaiian and that the above information contained on this form is true and correct to the best of my knowledge and belief. I further consent to and authorize the Hawaiian Registry staff to extract information to verify and to validate my Hawaiian ancestry from the Operation 'Ohana records along with the Department of Health, other state repositories and Hawaiian organizations for the purpose herein and for verification and validation.

Signature of registrant or legal guardian ***Date***

THIS APPLICATION AND THE DATA PROVIDED HEREIN ARE MAINTAINED BY THE OFFICE OF HAWAIIAN AFFAIRS. FROM TIME TO TIME, WE MAY BE SENDING YOU INFORMATION AND ANNOUNCEMENTS OF THE OFFICE OF HAWAIIAN AFFAIRS' PROGRAM AND SERVICES.

THE OFFICE OF HAWAIIAN AFFAIRS WILL NOT SHARE, DISCLOSE, OR MAKE ACCESSIBLE YOUR PERSONAL REGISTRATION INFORMATION TO ANY OTHER AGENCY, ORGANIZATION, PERSON OR ENTITY WITHOUT YOUR EXPRESSED WRITTEN CONSENT, EXCEPT AS REQUIRED BY LAW.

Signature of Registrar ***Date***

Mail application to: OFFICE OF HAWAIIAN AFFAIRS
HAWAIIAN REGISTRY
711 Kapi'olani Blvd., Ste. 500
Honolulu, HI 96813
Tel. (808) 594-1914