

DOCKETED

Docket Number:	09-AFC-07C
Project Title:	Palen Solar Power Project - Compliance
TN #:	202481
Document Title:	Exhibit 1133 - Updated Avian Comparison Table
Description:	N/A
Filer:	Marie Fleming
Organization:	Galati Blek LLP
Submitter Role:	Applicant Representative
Submission Date:	6/23/2014 1:20:43 PM
Docketed Date:	6/23/2014

2012/2013/2014 AVIAN MORTALITY INFORMATION FOR THE GENESIS, DESERT SUNGLIGHT, AND ISEGS PROJECTS

Updated as of 6/19/14

Monthly Totals	2012												2013												2014				
	jan	feb	mar	apr	may	june	july	aug	sept	oct	nov	dec	jan	feb	mar	apr	may	june	july	aug	sept	oct	nov	dec	jan	feb	mar	apr	may
Genesis (Trough)	0	0	0	0	0	1	6	1	0	4	0	0	0	0	3	4	10	4	26	68	7	12	1	4	4	3	1	No MCR	No MCR
Desert Sunlight (PV)	2	0	2	0	2	2	3	4	4	4	6	0	1	1	1	8	10	11	11	8	6	19	6	1	2	2	0	9	5
ISEGS (Tower)	1	0	1	3	1	0	2	1	2	1	1	2	2	1	1	4	6	5	8	8	42	58	12	13	25	17	55	97	81
Totals by Month	3	0	3	3	3	3	11	6	6	9	7	2	3	2	5	16	26	20	45	84	55	89	19	18	31	22	56	106	86

Yearly Totals	2012	2013	2014
Genesis (Trough)	12	139	8
Desert Sunlight (PV)	29	83	18
ISEGS (Tower)	15	160	275

NOTE: The 2014 total for Genesis reflects First Quarter data only - no MCRS were filed in April or May.

NOTE: Systematic, statistically rigorous carcass surveys began at ISEGS in November 2013 under the CEC and BLM approved Avian and Bat Monitoring and Management Plan

Color Code Legend

Specific location not reported	Open area	Fence	Pond	Solar array, trough, panel, or heliostat	Solar Tower	Solar Flux	Power block or building	T/L, power line, sub-station	Road or vehicle	Drainage channel	Construct or laydown area	Carcass surveys conducted
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THIS IS A SUMMARY SHEET--PROJECT SPECIFIC DATA FOR EACH PROJECT IS PROVIDED ON SEPARATE SHEETS WITHIN THIS EXCEL FILE.

SOURCE INFORMATION:

1. Monthly Compliance Reports for Genesis and ISEGS as publically filed with the California Energy Commission.
2. Publically available biological monitoring reports available from the Desert Sunlight Solar Farm website.
3. Information provided by the Project Owners based on communications with PSH representatives.

GENESIS	2012												2013												2014				
Month	jan	feb	mar	apr	may	june	july	aug	sept	oct	nov	dec	jan	feb	mar	apr	may	june	july	aug	sept	oct	nov	dec	jan	feb	mar	apr	may
Monthly Total	0	0	0	0	0	1	6	1	0	4	0	0	0	0	3	4	10	4	26	68	7	12	1	4	4	3	1		

Unknown	Bullocks Oriole	Mourning dove		American coot									Lesser goldfinch	Black throated grey warbler	Pied billed grebe	Mourning dove	Barn owl	Tree swallow	Grebe species (netting)	Clark's grebe-(netting)	Gadwall	House finch	Pigeon	White-throated swift	Eurasian collared dove
	Bullocks Oriole			Unknown small bird									Lesser goldfinch	House wren	Hermit thrush	Barn owl	Cliff swallow	Tree swallow	MacGillivray's warbler	Unknown		Bullock's oriole	Dove	Unknown	
	Western meadow lark			American kestrel									Bufflehead	Orange-crowned warbler	Townsend's warbler	Barn owl	Yellow headed blackbird	Tree swallow	Yellow breasted black bird	Green wing teal		Unknown	Rock wren	Unknown	
	Unknown species			Barn owl										Pied-billed grebe (netting)	Wilson's warbler	Great Blue Heron	Mourning dove	Tree swallow	Unknown water bird	Green wing teal		White crowned sparrow	American kestrel		
	Brewers blackbird														Yellow warbler		Barn owl	White winged dove	Horned grebe (netting)	Blue wing teal					
	Mourning dove														Yellow warbler		American coot	Cowbird	Mourning dove	Marsh wren					
															Yellow warbler		Bat western pipistrelle	Cowbird	Unknown	Lesser goldfinch					
															Warbler		Great blue heron	Herring gull		Cooper's hawk					
															Sparrow		American kestrel	Say's Phoebe		Passerine species					
															American coot		Yellow headed blackbird	Cliff swallow		Orange-crowned warbler					
																	Unknown	Gull		Bat					
																	Bat western pipistrelle	Bullock's Oriole		Bat					
																	Great roadrunner	Cliff swallow							
																	Brown pelican	Eared grebe							
																	Cliff swallow	Yellow headed blackbird							
																	Lesser nighthawk	Common loon							
																	Cliff swallow	Bullock's Oriole							
																	Cowbird	Tree swallow							
																	Brewer's blackbird	Rough wing swallow							
																	Say's Phoebe	Cowbird							
																	Cowbird	Cowbird							
																	Great blue heron	Mourning dove							
																	Cowbird	Black headed Grosbeak							
																	Great tailed grackle	Common loon							
																	American kestrel	Black phoebe							
																	Canyon bat	Mourning dove							
																		Cliff swallow							
																		Cliff swallow							
																		Flycatcher							
																		Mourning dove							
																		Lesser nighthawk							
																		Sora							

LEGEND

Specific location not reported	Open area	Fence	Pond	Solar array, trough, panel, or heliostat	Solar Tower	Solar Flux	Power block or building	T/L, power line, sub-station	Road or vehicle	Drainage channel	Construct or laydown area	Carcass surveys conducted
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Entries for August continue on next page

GENESIS, cont.	2012												2013												2014				
	Month	jan	feb	mar	apr	may	june	july	aug	sept	oct	nov	dec	jan	feb	mar	apr	may	june	july	aug	sept	oct	nov	dec	jan	feb	mar	apr

- Tree swallow
- Blue winged teal
- Mourning dove
- Sora
- Tree swallow
- Tree swallow
- Unknown
- Cowbird
- Cowbird
- Bullock's Oriole
- Bullock's Oriole
- Bunting (Lazul?)
- Bunting (Lazul?)
- Cowbird
- Cowbird
- Cowbird
- Passerine species
- Passerine species
- Passerine species
- Passerine species
- Unknown
- Unknown
- Unknown
- Yellow headed blackbird
- Passerine species
- Eared grebe
- Gull - ring billed
- Hermit warbler
- Lesser nighthawk
- Unknown
- American Kestral
- Unknown
- Bat
- Bat
- Bat
- Bat

LEGEND												
Specific location not reported	Open area	Fence	Pond	Solar array, trough, panel, or heliostat	Solar Tower	Solar Flux	Power block or building	T/L, power line, sub-station	Road or vehicle	Drainage channel	Construct or laydown area	Carcass surveys conducted

DESERT SUNLIGHT	2012												2013												2014					
	Month	jan	feb	mar	apr	may	june	july	aug	sept	oct	nov	dec	jan	feb	mar	apr	may	june	july	aug	sept	oct	nov	dec	jan	feb	mar	apr	may
Monthly Total	2	0	2	0	2	2	3	4	4	4	6	0	1	1	1	8	10	11	11	8	6	19	6	1	2	2	0	9	5	
Burrowing owl			Black tailed gnatcatcher		Western grebe	Unknown	Yellow headed blackbird	Yellow headed blackbird	Cowbird	White crowned sparrow	Barn owl		Common poorwill	Common poorwill	Logger-head shrike	Eared grebe	Common raven	Mourning dove	Town- send's warbler	Brewer's blackbird	Common yellow throat	Yellow-headed blackbird	Sora	Eared grebe	Loggerhead shrike	Sora		Common loon	Western Grebe	
Prairie falcon		Costa's humming bird			Brewer's blackbird	American kestrel	Sparrow	Wilson's warbler	American avocet	American avocet	Long-eared owl					Logger -head shrike	Logger -head shrike	Common loon	Brown pelican	Western tanager	Pied-billed grebe	Western grebe	Red-necked phalarope		White-crowned sparrow	House finch		Common loon	California Myotis	
							Loggerhead shrike	Yellow rumped warbler	American avocet	Blackbird	Unknown					Surf scoter	Double crested commorant	Western grebe	Brown pelican	Eared grebe	Unidenti- fied bird	Western grebe	Western grebe				Unknown sparrow	Verdin		
								Pallid bat	American avocet	Eared grebe	American avocet					Great-tailed grackle	Clapper rail	Eared grebe	Brown pelican	Cowbird	Unidenti- fied bird	Blue winged teal	Great egret				Common raven	Wilson's warbler		
											Mourning dove					Red-breasted Merganser	Wilson's warbler	American coot	Black crowned night heron	Western tanager	Savannah sparrow	Mourning dove	Western grebe				Unknown hatchling (predated)	Townsend's Big Eared Bat		
											American avocet					White-crowned sparrow	Western tanager	Double crested commorant	Ash throated fly catcher	Ash throated flycatcher	American coot	American coot	Western meadow lark				White-winged dove			
																Horned lark	Lesser nighthawk	Common raven	Black headed grosbeak	Wilson's warbler		American coot					Townsend's Warbler			
																Western mastiff bat	Town-send's warbler	Double crested commorant	Tree swallow	Pied- billed grebe		Western grebe					Unidentified duck			
																		Logger head shrike	Great tailed grackle	Horned lark		Western grebe					White-faced Ibis			
																		Wilson's warbler	Mourning dove	Common poorwill		Western grebe								
																		Costa humming bird	Great tailed grackle			Western grebe								
																						Mourning dove								
																						Eared grebe								
																						American Avocet								
																						Western grebe								
																						Eared grebe								
																						American coot								
																						Sora								
																						Eared grebe								

LEGEND

Specific location not reported	Open area	Fence	Pond	Solar array, trough, panel, or heliostat	Solar Tower	Solar Flux	Power block or building	T/L, power line, sub-station	Road or vehicle	Drainage channel	Construct or laydown area	Carcass surveys conducted
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ISEGS	2012												2013												2014					
	Month	jan	feb	mar	apr	may	june	july	aug	sept	oct	nov	dec	jan	feb	mar	apr	may	june	july	aug	sept	oct	nov	dec	jan	feb	mar	apr	may
Monthly Total	1	0	1	3	1	0	2	1	2	1	1	2	2	1	1	4	6	5	8	8	42	58	12	13	25	17	55	97	81	
	Eared grebe		Black-throated sparrow	Savannah sparrow	Western tanager		Yellow-billed Cuckoo	Lesser nighthawk	Western tanager	Pine siskin	Chipping sparrow	American coot	White-crowned sparrow	Cooper's hawk	Loggerhead shrike	Brewer's sparrow	Loggerhead shrike	White-throated swift	Greater roadrunner	Lesser Nighthawk	Western tanager	House finch	Rock pigeon	American Pipit	Unknown	Western meadowlark	Anna's humming bird	House finch	Mourning dove	
				Yellow-rumped warbler American coot			Cooper's hawk		American coot			Unknown	Logger head shrike			White-crowned sparrow	Unknown passerine	Lesser nighthawk	Blue-gray gnatcatcher	Common raven	Unknown	House finch	Unknown	American kestrel	Yellow-rumped warbler	Brewer's blackbird	Mourning dove	Western meadowlark	Mourning dove	
																Green-tailed Towhee	Horned lark	Western wood pewee	Ash-throated flycatcher	White-throated swift	Chipping sparrow	Yellow-rumped Warbler	Greater roadrunner	Northern Flicker	Greater roadrunner	House finch	Mourning dove	House finch	Yellow-rumped warbler	
															Myotis bat	Western tanager	Common Poorwill	Northern rough winged swallow	Common raven	Unknown	Verdin	Blackbird species	Mourning dove	Common yellow throat	Loggerhead shrike	Anna's humming bird	Mourning dove	House finch	Cliff swallow	
																Wilson's warbler	Greater roadrunner	Black-throated sparrow	Lazuli bunting	MacGillivray's warbler	Unknown	Yellow-rumped Warbler	American coot	Mourning dove	House finch	Anna's humming bird	Anna's humming bird	Loggerhead shrike		
															Myotis bat		Lesser nighthawk	Northern rough winged swallow	Blue-Gray Gnatcatcher	House finch	Yellow-rumped Warbler	American pipit	Brewer's blackbird	Mourning dove	Unknown	Mourning dove	Violet green swallow			
																Black-throated sparrow	Loggerhead shrike	Brewer's sparrow	House finch	Greater roadrunner	Great tailed Grackle	Mourning dove	Greater roadrunner	Unknown	Black-throated sparrow	Cliff swallow				
																Northern mockingbird	Myotis bat	Unknown	Wilson's warbler	Greater roadrunner	Great tailed Grackle	American kestrel	Greater roadrunner	Mourning dove	Mourning dove	Mourning dove	Calliope humming bird			
																						Mourning dove	Verdin	Savannah sparrow	Say's Phoebe	Mourning dove	Western tanager	Mourning dove	Western meadowlark	Costa's humming bird
																						Unknown	Yellow-rumped warbler	American Pipit	Western meadow lark	Mourning dove	Anna's humming bird	Anna's humming bird	Yellow-rumped warbler	Lesser goldfinch
																						Unknown	Blue-winged teal	Unknown	Western meadow lark	Yellow-rumped warbler	Brewer's blackbird	Costa's humming bird	Mourning dove	Violet green swallow
																						White-throated swift	Blue-winged teal	Pallid bat	Mourning dove	American kestrel	Unknown	Unknown	Barn swallow	
																						American coot	Mourning dove		Brewer's blackbird	Mourning dove	White-thrt swift	Unknown	Mourning dove	Cliff swallow
																						Cowbird	American coot		Greater roadrunner	Costa's humming bird	Mourning dove	American kestrel	Barn swallow	
																						Wilson's warbler	Lincoln's sparrow		Anna's humming bird	Anna's humming bird	Mourning dove	Mourning dove	Cliff swallow	
																						Black throated gr warbler	Unknown		American kestrel	Mourning dove	Costa's humming bird	Loggerhead shrike	Barn swallow	
																						Cassin's vireo	House finch		Rock pigeon	Western small-footed myotis	Horned lark	Tree swallow	Yellow-rumped warbler	
																						House finch	American coot		Black-throated sparrow		Horned lark	Yellow-rumped warbler	Barn swallow	
																						Mourning dove	Unknown		Mourning dove		Horned lark	White-crowned sparrow	Rufous humming bird	
																						Unknown	Yellow-rumped warbler		Greater roadrunner		Violet green swallow	Brewer's sparrow	Cliff swallow	
																						Mourning dove	Unknown		Cactus wren		Tree swallow(died on way to rehab)	Yellow-rumped warbler	Nashville warbler	
																						Mourning dove	Verdin		Mourning dove		Violet green swallow	Costa's humming bird	Northern rough winged swallow	
																						Unknown	Yellow-rumped warbler		Northern Flicker		Unknown	Unknown	Bank swallow	
																						Mourning dove	Unknown		Canyon bat		Costa's humming bird	Western meadowlark	Lazuli bunting	

Entries for Sept & Oct continue on next page

Entries for January continue on next page

Entries for March, April and May continue on next page

LEGEND												
Specific location not reported	Open area	Fence	Pond	Solar array, trough, panel, or heliostat	Solar Tower	Solar Flux	Power block or building	T/L, power line, sub-station	Road or vehicle	Drainage channel	Construct or laydown area	Carcass surveys conducted

ISEGS, cont.	2012												2013								2014						
	Month	jan	feb	mar	apr	may	june	july	aug	sept	oct	nov	dec	jan	feb	mar	apr	may	sept	oct	nov	dec	jan	feb	mar	apr	may
																			Mourning dove	House finch			Unknown bat		Costa's humming bird	Yellow-rumped warbler	Bank swallow
																			Mourning dove	House finch					Yellow-rumped warbler	Violet green swallow	Yellow-rumped warbler
																			Unknown	Unknown					Costa's humming bird	Rock dove	Mourning dove
																			Unknown	Unknown					Mourning dove	Calliope humming bird	Ash throated flycatcher
																			Townsend's Warbler	Yellow-rumped warbler					Mourning dove	Loggerhead shrike	Rufous humming bird
																			Unknown	Yellow-rumped warbler					Tree swallow	Yellow-rumped warbler	Mourning dove
																			Pipistrellis hesperus	White-crowned sparrow					Brewer's blackbird	Mourning dove	Lazuli bunting
																			Unk. Bat	House finch					House finch	Yellow-rumped warbler	Wilson's warbler
																			Unk. Bat	Yellow-rumped warbler					Mourning dove	Brewer's sparrow	Yellow-rumped warbler
																			Unk. Bat	Yellow-rumped warbler					Yellow-rumped warbler	Yellow-rumped warbler	Bank swallow
																			Unk. Bat	Yellow-rumped warbler					Unknown swallow	Brewer's blackbird	Yellow warbler
																			Unk. Bat	House finch					Unknown swallow	Lincoln's sparrow	Tree swallow
																			Unk. Bat	Mourning dove					Mourning dove	Unknown	Black-throated sparrow
																			Unk. Bat	Yellow-rumped warbler					Mourning dove	American coot	Unknown humming bird
																			Unk. Bat	Black and white warbler					White-crowned sparrow	Mourning dove	Anna's humming bird
																			Unk. Bat	Unknown					Black throated sparrow	White-crowned sparrow	Mourning dove
																			Unk. Bat	American coot					Horned lark	Unknown	Olive-sided flycatcher
																			Unk. Bat	Great-tailed grackle					Horned lark	Eurasian collared dove	Horned lark
																				Yellow-rumped warbler					Yellow-rumped warbler	Unknown	Yellow-rumped warbler
																				Yellow-rumped warbler					Yellow-rumped warbler	Unknown	Mourning dove
																				Great-tailed grackle					Unknown small passerine	American kestrel	Unknown
																				Unknown					White-crowned sparrow	Yellow-rumped warbler	Costa's humming bird
																				Spotted sandpiper					Mourning dove	Violet green swallow	Unknown
																				Yellow-rumped warbler					Eared grebe	Tree swallow	Wilson's warbler
																				Mourning doe					Northern rough-winged swallow	Cliff swallow	Unknown humming bird

Entries for Octpber continue on next page

Entries for March, April and May continue on net page

LEGEND												
Specific location not reported	Open area	Fence	Pond	Solar array, trough, panel, or heliostat	Solar Tower	Solar Flux	Power block or building	T/L, power line, sub-station	Road or vehicle	Drainage channel	Construct or laydown area	Carcass surveys conducted

ISEGS, cont.	2012												2013						2014								
	Month	jan	feb	mar	apr	may	june	july	aug	sept	oct	nov	dec	jan	feb	mar	apr	may									
																			Townsend's warbler					Unknown small passerine	Unknown	Vaux's swift	
																			White-crowned sparrow					American kestrel	Unknown	Rufous humming bird	
																			Unknown					Tree swallow	White-crowned sparrow	Townsend's warbler	
																			CA myotis bat					California myotis	Mourning dove	Unknown swift	
																			Unk. Bat					California myotis	Costa's humming bird	Hermit warbler	
																			Unk. Bat					Unknown bat	White-throated swift	Horned lark	
																			Unk. Bat							Swallow (unknown)	Yellow-rumped warbler
																			Unk. Bat							Nashville warbler	Mourning dove
																			Unk. Bat							Horned lark	Lesser nighthawk
																										Brewer's blackbird	Black-headed grosbeak
																										Yellow-rumped warbler	Yellow-breasted chat
																										Yellow-rumped warbler	Nashville warbler
																										Mourning dove	Barn swallow
																										Costa's humming bird	Unknown
																										Humming bird (unknown)	Lesser nighthawk
																										Humming bird (unknown)	Unknown
																										Yellow-rumped warbler	Unknown humming bird
																										Brewer's blackbird	Mourning dove
																										Rufous humming bird	Pine siskin
																										Broad-tailed humming bird	Townsend's warbler
																										Calliope humming bird	Costa's humming bird
																										American kestrel	Northern rough winged swallow
																										Swallow (unknown)	Lapland longspur
																										Sparrow (unknown)	Horned lark
																										Western meadowlark	Greater roadrunner
																										Anna's humming bird	Greater roadrunner
																										Hermit warbler	Brown-headed cowbird
																										Horned lark	Hermit warbler

LEGEND

Specific location not reported	Open area	Fence	Pond	Solar array, trough, panel, or heliostat	Solar Tower	Solar Flux	Power block or building	T/L, power line, sub-station	Road or vehicle	Drainage channel	Construct or laydown area	Carcass surveys conducted
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Entries for April and May continue on next page

ISEGS, cont.	2012												2013												2014				
	Month	jan	feb	mar	apr	may	june	july	aug	sept	oct	nov	dec	jan	feb	mar	apr	may	june	july	aug	sept	oct	nov	dec	jan	feb	mar	apr

Costa's humming bird	Mourning dove
Costa's humming bird	Anna's humming bird
Costa's humming bird	Mexican Free-tailed bat
Townsend's warbler	California Myotis
Costa's humming bird	
Rufous humming bird	
Wilson's warbler	
Sparrow (unknown)	
Swallow (unknown)	
Rufous humming bird	
Tree swallow	
Warbler (unknown)	
Rufous humming bird	
Yellow-rumped warbler	
White-crowned sparrow	
White-crowned sparrow	
Barn swallow	
Horned lark	
Horned lark	

LEGEND

Specific location not reported	Open area	Fence	Pond	Solar array, trough, panel, or heliostat	Solar Tower	Solar Flux	Power block or building	T/L, power line, sub-station	Road or vehicle	Drainage channel	Construct or laydown area	Carcass surveys conducted
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