

09-AFC-8



BEFORE THE ENERGY RESOURCES CONSERVATION AND DEVELOPMENT
COMMISSION OF THE STATE OF CALIFORNIA
1516 NINTH STREET, SACRAMENTO, CA 95814
1-800-822-6228 – WWW.ENERGY.CA.GOV

DATE SEP 28 2010 RECD. SEP 29 2010

APPLICATION FOR CERTIFICATION FOR THE GENESIS SOLAR ENERGY PROJECT GENESIS SOLAR, LLC

DOCKET NO. 09-AFC-8

ERRATA TO THE PRESIDING MEMBER'S PROPOSED DECISION

After reviewing the comments submitted by the parties on or before September 20, 2010, we incorporate the following changes to the August 19, 2010 Presiding Member's Proposed Decision (PMPD):

INTRODUCTION

1. Page 2, Fourth Paragraph: 37 months for construction is reflected throughout most of the PMPD; consistent with the time frame within Exhibit 60.

"Project construction is expected to occur over a total of <u>37</u> 39 months." [Global change needed]

2. Page 6, Fifth Paragraph

"The Committee published this PMPD on August 2019, 2010, and scheduled..."

PROJECT DESCRIPTION

3. Page 2, Last Bullet:

"... Colorado River substation approximately 25 14 miles to the east..."

4. Page 2:

The Applicant expects project construction to take 39 37 months to complete, with an average workforce of 650 646 employees and a peak workforce of approximately 1,100 1,085 workers in Month 23 of construction.

5. Page 2:

Two, 5 acre evaporation ponds: up to 10 acres total (located within the 1,800-acre site) (July 12, 2010 transcripts p145 Ex. 60.); The generated electrical power from the GSEP switchyard will be transmitted through a new generation-tie (gen-tie) line originating at a GSEP on-site switchyard and terminating at

Southern California Edison's (SCE) planned 230/500 kV Colorado River substation approximately 25 14 miles to the east. The initial segment of the gentie will be 6.5 miles long, running from the GSEP to the Blythe Energy Plant Transmission Line (BEPTL) currently under construction near I-10. The GSEP line will then share poles with the BEPTL, with both lines before connecting to connecting at the expanded Colorado River new substation...

6. Page 2:

The GSEP will require two separate units consisting of a total of 1,760 solar collector assemblies (SCAs) arraynged in rows, or piping loops, with four assemblies in each loop. Each SCA will consist of individually mounted mirror modules. approximately 40 feet long, for a total length of 492 feet with an approximate mirror area of 8,795 square feet. The mirrors to be used for the project will have an aperture of 18.9 feet and focal length of 5.6 feet. (Ex. 400, pp. B.1-1 to B.1-2.)

7. Pages 2 and 3, Item 3, Solar Field, Power Generation Equipment and Process, third and fourth bullet, Revise as follows:

- ".... be <u>approximately</u> 6.5 miles long, running from the GSEP to the Blythe Energy Plant Transmission Line (BEPTL) currently under construction near 1-10."
- "....linear facilities include <u>approximately</u> 6.5 miles <u>of</u> access road and natural gas pipeline;"

Fix the typographical error found in the first sentence as follows: ...access road from I-10 (Wiley's Wells exit)

8. Page 3, Top of Page:

"...GSEP to the Blythe Energy Plant Transmission Line (BEPTL) currently under construction near I-10. The GSEP line will then share poles with the BEPTL, with both lines connecting at *before connecting to* the new substation."

9. Page 3, First Full Paragraph:

"...that feed a single power plant two power blocks..."

10. Page 3, Second Full Paragraph:

"... major components: solar field(s); power block s; ..."

11. Page 3, Second to last Full Paragraph

Each 125 MW power plant (one for the eastern solar field, and one for the western solar field) consists of: Steam Turbine Generator (STG); Servicing Solar Scenario Steam Generator (SSG) heat exchangers; surface condenser feedwater pumps; deaerator; feedwater heaters; air-cooled condenser; evaporation ponds; natural gas-fired boilers; emergency diesel generator, emergency diesel fire pump, Wet Surface Air Cooler, and, solar thermal collection field. (Exs. 60, p. 3-5;. 400, pp. B.1-3, B.1-27 to B.1-29; 7/12/10 RT 7.)

12. Page 3, Last Full Paragraph: Insert the following:

.... Each plant's capacity factor will depend on the local solar insolation, but has been estimated to be approximately 27 percent, or approximately 300,000 MWh/year (the total output of both units together being 600,000 Mwh/yr). (Ex. 400, p. B.1-3.)

13. Page 4:

<u>Each 125 MW power plant will require</u> Several tanks on site will contain the <u>its</u> <u>own</u> raw water, treated water, and wastewater <u>tanks for operation</u>, including: and will have the following capacity:

- Raw Water/Fire Water Storage Tank: 700,000gallons
- Raw Water/Fire Water Storage Tank: 500,000 gallons
- RO Feed Tank: 265,000 gallons
- Treated Water Storage Tank: 200,000 gallons
- Treated Water Storage Tank: 1,250,000 gallons
- Demineralized Water Storage Tank: 145,000 gallons
- Wastewater Storage Tank: 155,000 gallons

•

<u>These tanks</u> (ten in total) Wastewater storage tank: 250,000 gallons were sized to provide sufficient water to support operation at of each separate 125 MW power the plant during peak (250 MW total) operating conditions for GSEP. Additionally, the tanks were sized to, as well as provide a 12-hour storage capacity to enable continued operations when a failure interrupts water or wastewater treatment capabilities. The tanks also enable allow the plant meet water supply requirements on a constant 24-hour basis and eliminate to accommodate midday demand peaks. (Ex. 400, p. B.1-8.)

14. Page 5:

On an annual average, blowdown to the evaporation ponds will be approximately 90,000 12,000 gallons per day for each unit, increasing to approximately 140,000 19,000 gallons per day for each unit during peak summer conditions.

15. Page 6:

The average pond depth is eight feet and residual precipitated solids will be removed approximately every seven twenty years to maintain a solids depth no greater than approximately three feet for operational and safety purposes. Ponds will have net coverings to prevent bird access. The precipitated solids will be sampled and analyzed to meet the characterization requirements of the receiving disposal facility. (Ex. 400, pp. B.1-11 to B.1-12.)

16. Page 6, On-site Bioremediation Land Treatment Unit:

"slopes of approximately 3:1 (horizontal:vertical). Spills of HTF will be moved to the staging area and placed on plastic sheeting pending receipt of analytical results and characterization of the waste material. If the soil is classified as a hazardous waste, the impacted soils will be transported from the site by a licensed hazardous waste hauler for disposal at a licensed hazardous waste landfill. Non hazardous material shall be treated in the LTU. Based on available operation data from...."

17. Page 6, Natural Gas Supply, First Sentence:

".. pipeline located north of near I-10."

18. Page 7, Hazardous Waste Management, Last Sentence

"....construction and operation-phase hazardous wastes will be recycled, as detailed in the **Hazardous** <u>Materials</u> <u>Management</u> section of this Decision (which also includes additional data on hazardous materials"

19. Page 8, Fire Protection, Mid-Page: The bullets at the bottom of page 4 should be revised as follows:

"Each 125 MW power plant's fire protection water system will be supplied from a dedicated 360,000-gallon portion of the <u>700</u>500,000-gallon raw water storage tank located on the plant site."

20. Page 9, Paragraph 2:

Shield wires and lightning arrestors will be included to protect substation equipment and personnel against lightning strikes. The switchyard arrangement is shown in the power block layout general arrangement for unit two.

The generated electrical power from the Project switchyard will be transmitted through a generation-tie (gen-tie) line that will be routed in a southeasterly Right-Of-Way (ROW) eventually connecting to the proposed expanded SCE 230/500-kV Colorado River substation via the Blythe Energy Project Transmission Line (BEPTL). (Ex. 400, p. B.1-18.)

The GSEP will require an interconnection upgrade at the proposed Colorado River substation, which includes its expansion by 40 acres to accommodate new generation from GSEP and Solar Millennium Blythe. Six additional transmission poles will also be required to connect GSEP electricity from the BEPTL into the <u>expanded</u> Colorado River Substation. These upgrades are described and analyzed in the report published July 2, 2010, entitled: Transmission System Engineering Appendix A, Colorado River Substation Expansion and GSEP Interconnection Actions Impact Analysis. (Ex. 403, pp. D.5-1 to D. 5-63.)

The GSEP interconnection (along with that of other generators) involves expanding the already approved Expanding the permitted 500-kV SCE switchyard Colorado River substation into a full 230/500-kV substation will require utilizing approximately 90 acres of land. The expansion project would involve site preparation by clearing existing vegetation and grading, and may involve redirecting surface flows around one side of the substation. No final drainage or grading plans have yet been prepared, but it may be necessary to redirect surface water flow around one side of the substation. An approximately 10-acre staging area adjacent to the site may be will also be necessary for the expansion construction activity. Although final, detailed engineering, grading and drainage plans are not yet available, it is estimated that the total area subject to permanent new disturbance from construction of the expanded substation, including the new expansion area, would be approximately 65 acres (45 acres for substation grading, 20 acres for drainage/side slopes, plus temporary disturbance resulting from a 10-acre staging area). (Ex. 62 and Ex. 69).

21. Page 12, Findings of Fact

- Genesis Solar LLC will own and operate the project, which will be located within eastern Riverside County on <u>approximately</u> 1,800 acres of land within....
- 3. "...that feed a single power plant two power blocks having a combined..."

22. Page 12, Finding of Fact #5:

The generated electrical power from the GSEP switchyard will be transmitted through a generation-tie (gen-tie) line that will be routed in a southeasterly ROW eventually connecting to the proposed expanded SCE 230/500 kV Colorado River substation via the Blythe Energy Project Transmission Line (BEPTL). The gen-tie's initial segment will be 6.5 miles of new line from the GSEP site to the BEPTL, at which point it will share poles with BEPTL to the connection before connecting with the expanded Colorado River substation.

PROJECT ALTERNATIVES

23. Page 12:

The record contains a sufficient analysis of Alternatives and complies with the requirements of the California Environmental Quality Act <u>and</u> the Warren-Alquist Act, and the National Environmental Policy Act.

24. Page 14, Findings of Fact and Conclusions

14. If all Conditions of Certification contained in this Decision are implemented, direct and indirect adverse environmental impacts related to construction and operation of the Genesis Solar Energy Project will be mitigated to a level of insignificance, except for a direct impact to ethnographic resources and cumulative impacts to Cultural Resources, Land Use and Visual Resources, for which we have made the appropriate findings of override.

GENERAL CONDITIONS OF CERTIFICATION

25. Page 4, Compliance Project Manager Responsibilities Add the following:

All project compliance submittals are submitted to the CPM for processing. Where a submittal required by a condition of certification requires CPM approval, the approval will involve all appropriate Energy Commission staff and management. All submittals must include searchable electronic versions (pdf or MS Word files). The CPM may accept and approve, on a case by case basis, compliance submittals that provide sufficient detail to allow construction activities to commence without the submittal containing detailed information on construction activities that will be commenced later in time.

26. Page 21: Attachment 1: Complaint Report/Resolution Form page 21:

The word "complainant" is incorrectly spelled four times as "complaintant".

FACILITY DESIGN

- **27. Page 5, GEN-2, Verification:** The word "Verification" was omitted from the beginning of the second paragraph:
- **28.** Page 7, GEN-3, Verification (first full paragraph): The word "Verification" was omitted:
- **29.** Page 7, GEN-4, Title (second full paragraph): The title "GEN-4" was omitted from the beginning of the Condition:

30. Page 10, GEN-5, Sub-section "D": The subsection was mis-labeled:

"1. D. The designer shall:"

TRANSMISSION SYSTEM ENGINEERING

31. Page 2, Third Paragraph, last sentence:

...CAISO provided written testimony on which was the report of their findings at the Energy Commission hearings. At the commission hearings, Staff presented the oral testimony regarding the findings by CAISO contained in the confidential Phase II study. Staff also sponsored the documentary evidence provided by CAISO (Phase II study, redacted. (Exs. 400, p. D.5-2; 405; and, 7/21/10 RT 42 et seq.)

32. Page 5, First Paragraph: Add the following to the citation string:

"The record indicates that the as yet unbuilt Colorado River substation will have to be expanded but the expansion has been fully analyzed for environmental impacts in Exhibits 62 and 403."

33. Under Public Comments page 6:

There were no public comments on soil and water resources. CURE submitted "comments" which were essentially identical to the arguments made in their briefs. The Decision addresses CURE's arguments, above.

- **34. Page 11, TSE-5, Sub-part "f)":** The alphabetical listing under sub-part "f" is missing a sub-section per Exhibit 400, as follows:
 - <u>"c.</u> The final Phase II Interconnection Study, including a description of facility upgrades, operational mitigation measures, and/or special protection system sequencing and timing if applicable; and
 - e. <u>d.</u> A copy of the executed LGIA signed by CAISO and the project owner.

GREENHOUSE GAS EMISSIONS

35. Page 1 − 2:

The generation of electricity using fossil fuels, even in a back-up generator at a thermal solar plant, produces air emissions known as greenhouse gases in addition to the criteria air pollutants that have been traditionally regulated under the federal and state Clean Air Acts. California is actively pursuing policies to reduce GHG emissions; among them is a policy to add that include adding non-GHG emitting renewable generation resources to the system.

The <u>currently regulated</u> greenhouse gases are <u>carbon dioxide</u> (CO_2) nitrous oxide (N_2O) , methane (CH_4) , sulfur hexafluoride (SF_6) , hydrofluorocarbons (HFC), and perflurocarbons (PFC). CO_2 emissions are far and away the most common of these emissions; as a result, GHG emissions are often expressed in terms of "metric tons of CO_2 -equivalent" $(MTCO2E_2e)$ for simplicity.

Since the impact of the GHG emissions from a power plant's operation has both-global, rather than—and local, effects, those impacts should be assessed not only by analysis of the plant's emissions, but also in the context of the operation of the entire electricity system of which the plant is an integrated part. Furthermore, the impact of the GHG emissions from a power plant's operation should be analyzed in the context of applicable GHG laws and policies, such as AB 32.

36. Page 4:

Currently, the EPS is the only example of laws, ordinances, regulations or standards (LORS) that has the effect of limiting power plant GHG emissions. GSEP, as a renewable energy generation facility, is determined by rule to comply with the Greenhouse Gas Emission Performance Standard requirements of SB 1368 (Chapter 11, Greenhouse Gases Emission Performance Standard, Article 1, Section 2903 [b][1]). However, even if it were not determined by rule to comply, the project would be GSEP is exempt from SB 1368 because it would operate at or below a 60 percent capacity factor.

37. Page 5:

There is no adopted, enforceable federal or state LORS applicable to GSEP construction emissions of GHG. Nor is there a quantitative threshold over which GHG emissions are considered "significant" under CEQA. Nevertheless, there is guidance from regulatory agencies on how the significance of such emissions should be assessed. For example, the most recent guidance from CARB staff recommends a "best practices" threshold for construction emissions. [CARB, Preliminary Draft Staff Proposal, Recommended Approaches for Setting Interim Significance Thresholds for Greenhouse Gases under the California Environmental Quality Act (Oct. 24, 2008), p. 9]. Such an approach is also recommended on an interim basis, or proposed, by major local air districts.

38. Page 7, paragraph 2:

As we have previously noted, GHG emissions have both-global and local, impacts. While it may be true that in general, when an agency conducts a CEQA analysis of a proposed project, it does not need to analyze how the operation of the proposed project is going to affect the entire system of

projects in a large multistate region, analysis of the impacts of GHG emissions from power plants requires consideration of the project's impacts on the entire electricity system.

39. Page 12:

The footnote on page 12 noting that "OTC Humboldt Bay Units 1 and 2 are included in this list..." should be labeled as "a"

40. Page 14, Finding of Fact #1:

the correct designation for consistency is MTCO2E:

41. Page 14, Finding of Fact #2:

There is no numerical threshold of significance under CEQA for construction-related GHG emissions.

42. Page 16, Conclusions "8" and "9":

- 8. The GHG emissions of any power plant must be assessed within the system on a case-by-case basis to ensure that the project <u>GSEP</u> will be consistent with the goals and policies enunciated above.
- 9. Any new power plant that we certify must <u>The GSEP will</u>. . .

AIR QUALITY

43. Page 7, before bullets:

The <u>applicant proposed</u> measures for reducing engine emissions during construction of the GSEP are listed below:

after bullets:

Control strategies <u>proposed by the applicant</u> for fugitive dust emissions during construction of the GSEP include:

44. Page 9:

These mitigation measures, updated and revised in consideration of the construction emissions impact potential of this very large solar energy project, are contained in Conditions of Certification AQ-SC1 through AQ-SC5. We find that the proposed Conditions of Certification will mitigate all construction air quality impacts of the project to less than significant levels. (Ex. 400, p. C.1-25.)

45. Page 10, Table:

Ex. 400, p. C.1-26, **Table 11** and Ex. 444, p. C.1-2, **Table 11 Addendum**

46. Page 12:

Compliance with all District rules and regulations was demonstrated to the District's satisfaction. The District's FDOC conditions are presented in the Conditions of Certification (AQ-1 to AQ-5149).

47. Page 17, FINDINGS OF FACT 12:

FINDINGS OF FACT #12 The project will result in a cumulative overall reduction in GHG emissions from the state's power plants, will not worsen current conditions, and will thus not result in impacts that are cumulatively significant.

48. Page 18, AQ-SC3:

- AQ-SC3 Construction Fugitive Dust Control: The AQCMM shall submit documentation to the CPM in each Monthly Compliance Report that demonstrates compliance with the Air Quality Construction Mitigation Plan (AQCMP) mitigation measures for the purposes of minimizing fugitive dust emission creation from construction activities and preventing all fugitive dust plumes that would not comply with the performance standards identified in AQ-SC4 from leaving the project site. The following fugitive dust mitigation measures shall be included in the Air Quality Construction Mitigation Plan (AQCMP) required by AQ-SC2 and Aany deviation from the AQCMP mitigation measures shall require prior CPM notification and approval.
 - a. The main access ...
 - b. All unpaved construction ...

49. Page 18, AQ-SC3:

b. All unpaved construction roads and unpaved operation and maintenance site roads, as they are being constructed, shall be stabilized with a non-toxic soil stabilizer or soil weighting agent that can be determined to be both as efficient or more efficient for fugitive dust control as ARB approved soil stabilizers, and shall not increase any other environmental impacts, including loss of vegetation to areas beyond where the soil stabilizers are being applied for dust control. All other disturbed areas in the project and linear construction sites shall be watered as frequently as necessary during grading (consistent with <u>Biology Conditions of Certification that address the minimization of standing water</u>—<u>BIO-7</u>); and after active construction activities shall be stabilized with a non-toxic soil stabilizer or

soil weighting agent, or alternative approved soil stabilizing methods, in order to comply with the dust mitigation objectives of Condition of Certification **AQ-SC4**. The frequency of watering can be reduced or eliminated during periods of precipitation.

50. Page 18, AQ-SC5, sub-section b:

- b. All construction diesel In the event that a Tier 3 engine is not available for any off-road equipment larger than <u>50</u>100 hp and smaller than 750 hp.....
- **51. Page 20**, last paragraph before Verification, "n" is missing)
 - <u>n.</u> Wind erosion control techniques...

52. Page 21:

The AQCMM or Delegate shall implement the following procedures for additional mitigation measures in I-the event that such visible dust plumes are observed:

53. Pages 25, 29, 35, 37 & 39: [District Conditions]:

A global change is needed in this section by deletion of the chapter and number designation that precedes each "Application" series: "Chapter 2" through "Chapter 7" (there is no Chapter 1).

"Chapter 2 Application No. 00010788 and 00010789 (Two - 30 MMBTu/HR Natural Gas Fired Auxiliary Boiler)"

54. Page 34, AQ-21:

AQ-21 The project owner shall perform weekly specific conductivity tests of the blow-down water to indirectly measure total dissolved solids (TDS). Quarterly tests of the below down water will be done to confirm the relationship between conductance and TDS. <u>The TDS</u> shall not exceed 5,000 ppmv on a calendar monthly basis.

<u>Verification</u>: The TDS shall not exceed 5,000 ppmv on a calendar monthly basis. The cooling tower recirculation water TDS content test results shall be provided to representatives of the District, ARB, and the Energy Commission upon request.

55. Page 34, AQ-30 (missing alphabetical designations for sub-parts a through d)

56. Page 35, Equipment Description:

Two - 1,341 HP diesel fueled emergency generator engines, each driving a generator.

- 57. Page 38, AQ-39 (missing alphabetical designations for sub-parts a through d)
- **58. Page 39, AQ-44, Verification:** The word "**Verification**" was omitted from the beginning of the second sentence:

"Verification: The project owner shall make"

59. Page 40, AQ-46: (sub-part "**c**": entries are correct, but bullets are missing)

WORKER SAFETY AND FIRE PROTECTION

- 60. Page 6, Second Paragraph:
 - ".. identified an existing dirt road coming off the Ford Dry Lake interchange and heading northeast onto to within approximately 2 miles of the GSEP site ..."
- **61. Page 11, WORKER SAFETY-3, Verification:** Exhibit 400 was modified by Staff testimony at 7/12/10 RT 422, as follows:

"At least 3060 days prior to the start of site mobilization...

62. Page 13, WORKER SAFETY-6, Verification, Second Paragraph: Exhibit 433 reflects a change in the Verification

"At least <u>180</u>90 days prior to the initial receipt of heat transfer fluid on-site, the project owner shall:

HAZARDOUS MATERIALS MANAGEMENT

- **63. Page 10, HAZ-2:** the following language should be inserted **in both the** condition and verification:
 - "... and, if applicable, a Process Safety Management Plan ..."
- **64. Page 11, HAZ-6, Sub-part 5 A:** The numbers "1-3" under sub-part 5 are not part of the condition and should be deleted. And, several lines were omitted from the end of paragraph "A" pursuant to Exhibit 400, as follows:
 - A. a statement (refer to sample, **ATTACHMENT A**), signed by the project owner certifying that background investigations have

been conducted on all project personnel. Background <u>investigations</u> shall be restricted to determine the accuracy of employee identity and <u>employment history and shall be conducted in accordance with state and federal laws regarding security and privacy;</u>

- **65. Page 12, HAZ-6, Sub-part 9:** The following modifications are necessary. Numbers "4-7" under sub-part 9 should be deleted and paragraph "B" needs to be modified to reflect changes reflected in Exhibit 62:
 - A. security guard(s) present 24 hours per day, 7 days per week; **or**
 - B. power plant personnel on site 24 hours per day, 7 days per week,

and the CCTV able to view 100% of the entire solar array fenceline perimeter

or breach detectors **or** on-site motion detectors along the entire solar array fenceline. and one of the following:

Perimeter breach detectors or

CCTV able to view both site entrance gates and 100% of the power block area perimeter

WASTE MANAGEMENT

66. Page 3, paragraph 2:

Intervenor CURE, challenges Condition of Certification **WASTE-5** arguing that it <u>provides</u> insufficient mitigation to reduce impacts from UXO to construction worker safety below significance.

67. Page 3, paragraph 2:

Applicant argues that there is "no evidence of exercises or weapons used on the actual site." (Ex. 63, p. 5.) Applicant's expert points out that biological and cultural surveys of the area have netted only one spent 0.50 caliber cartridge.

68. Page 7, Last Paragraph:

"Each of the two solar fields will share the same Land Treatment Unit (LTU) to bioremediate <u>non-hazardous soil impacted by HTF</u>. or land farm the contaminated soils containing less than 10,000 mg/kg. The LTU will be

constructed with a prepared base consisting of two feet of compacted, low permeability, lime treated material. The compacted and native soil beneath the LTU is designated as the "treatment zone" to a depth of 5 feet. Soil samples will be collected and analyzed for HTF to verify that HTF is not migrating below the 5-foot treatment zone underlying the unit. with a clay liner at lease five feet deep per Title 27 requirements;"

69. Page 8:

The Committee took official notice of the record in the Beacon Solar Energy Project (BSEP) where the identical parties (NextEra, Staff and CURE) litigated the identical issues regarding HTF. In Beacon, CURE entered Exhibit 615 into the record which was an accumulation of reports of HTF spills at the SEGS facilities (BSEP 3/22/10 RT 76:13-15, 78:2-5, 435:19-23). We note that the majority of spills involved quantities under 100 gallons. As we noted in Beacon, a cubic yard is equal to 202 liquid gallons or 174 dry gallons. Thus, most of the spills at the SEGS facilities ever the last 20 years were substantially less than one cubic yard. The worst spill in the operational history of SEGS amounted to 30,000 gallons (about 150 cubic yards) of HTF on July 27, 2007 (Exs. 517; p.2; 520). The second largest spill occurred eight years before that on May 22, 1999 which amounted to 21,000 gallons (about 104 cubic yards). (Ex. 520). The record indicates that these very large spills are the exception, not the rule. (Id.)

Staff has assessed the properties of Therminol VP1 and reviewed the record of its use at Solar Electric Generating Stations (SEGS) 8 and 9 at Harper Lake, California. (Ex. 400, p. C. 4-8.) Staff examined past leaks, spills, and fires involving HTF. (Id.) Staff accepted Applicant's estimated annual average of 750 cubic yards of spilled HTF-contaminated soil which, we officially note, is equal to 151,500 1515 gallons. (Ex. 400, pp. C.3-14 through C.3-15.) This amount is greater than the sum of all spilled HTF over the lifetime of SEGS, as contained in the reports submitted by CURE. Staff notes that HTF spills typically spread laterally on the bare ground and soak down to a relatively shallow depth. (Staff Assessment C.13-14) This would make recovery of contaminated soil an easier process limiting the need for extensive excavation. Condition of Certification WASTE-11 would ensure that all spills or releases of hazardous substances that are in excess of EPA's reportable quantities (RQ's) are reported and cleanedup in accordance with all applicable federal, state, and local requirements (Staff Assessment C.13-32)

The applicant is required to recycle and/or dispose hazardous and non-hazardous wastes at facilities licensed or otherwise approved to accept the wastes. Because hazardous wastes would be produced during both project construction and operation, the GSEP project would be required to obtain a hazardous waste generator identification number from U.S. EPA.

The GSEP project would also be required to properly store, package, and label all hazardous waste; use only approved transporters; prepare hazardous waste manifests; keep detailed records; and appropriately train employees, in accordance with state and federal hazardous waste management requirements. (Staff Assessment C.13-25 to C.13-26)

Given the size of prior leaks at older SEGS facilities coupled with required preventive measures for this specific project, we find that Staff's analysis based upon an estimated 750 cubic yards of contaminated soil *per year* is an adequate baseline and reasonable level. We also find that the Conditions of Certification provide for appropriate mitigation in the event a larger HTF release occurs because the Conditions of Certification address the handling of contaminated soil and are not specific to any quantity. (WASTE-9, WASTE-10, WASTE-11)

70. Page 13, Yellow Highlights by Committee:

"Approximately <u>8,000</u> 50,000 tons of evaporative residue will be removed from the evaporation ponds every <u>twenty</u> seven years or <u>approximately 12,000</u> 214,500 tons during the 30-year project life. This material is anticipated to be non-hazardous solids, possibly requiring on-site dewatering before transport, consisting primarily of salt (sodium, chloride and sulfate) that will be disposed of at a Class II landfill facility. (Ex. 400, p. C.3-16.)

Non-hazardous liquid wastes will be generated at the pre- and post- water treatment systems consisting of brine or high TDS water. During facility operation these liquid (brackish water) waste streams combine for an average flow of 182 gpm that will be sent to the RWQCB permitted evaporation ponds with a total area of 10 acres (5 acres per plant unit). (Ex. 400, p. C.3-16.)"

71. Page 15:

The evidence shows that the GSEP project waste disposal volumes will combine with the waste volumes from four commercial projects, 15 residential projects, and 16 renewable <u>energy</u> projects along the I-10 Corridor.

72. Page 16: No. 4. Public Comment, revise to read as follows:

No public comment was received regarding **Waste Management.** CURE submitted "comments" which were essentially identical to the arguments made in their briefs. The Decision addresses CURE's arguments, above.

- **73.** Page 17, Finding of Fact #12: should be deleted.
- 74. Page 21, WASTE-8: Delete.
- 75. Page 23, WASTE-10, Verification:

<u>Verification:</u> Within 28 days of an HTF spill that is 42 gallons or more, the CERCLA reportable quantity, the project owner shall notify the DTSC and CPM of the spill and provide the results of the analyses and their assessment of whether the HTF contaminated soil is considered spill is hazardous or non-hazardous to DTSC and the CPM for review and approval in accordance with the criteria established and approved by the DTSC and the CPM per **WASTE-10**.

76. Page 23, WASTE-11:

WASTE-11 The project owner shall ensure that all spills or releases of hazardous substances, hazardous materials, or hazardous waste that are in excess of EPA's reportable quantities (RQ) that occur on the project property or related facilities during construction and on the property during operation, are documented and cleaned up and that wastes generated from the release/spill are properly managed and disposed of, in accordance with all applicable federal, state, and local requirements. The project owner shall document management of all accidental spills and unauthorized releases of hazardous substances, hazardous materials, and hazardous wastes that are in excess of EPA's reportable quantities (RQ), that occur on the project property or related linear facilities during construction and on the property during operation. The documentation shall include, at a minimum, the following information: location of release; date and time of release; reason for release; volume released; how release was managed and material cleaned up; amount of contaminated soil and/or cleanup wastes generated; if the release was reported; to whom the release was reported; release corrective action and cleanup requirements placed by regulating agencies; level of cleanup achieved and actions taken to prevent a similar release or spill; and disposition of any hazardous wastes and/or contaminated soils and materials that may have been generated by the release.

<u>Verification:</u> A copy of the unauthorized release/spill documentation shall be provided to the CPM within 30 days of the date the release was discovered. The documentation shall include, at a minimum, the following information: location of release; date and time of release; reason for release; volume released; how release was managed and material cleaned up; amount of contaminated soil and/or cleanup wastes generated; if the release was reported; to whom the release was reported; release corrective action and cleanup requirements placed by regulating agencies; level of cleanup achieved and actions taken to prevent a similar release or spill; and disposition of any hazardous wastes and/or contaminated soils and materials that may have been generated by the release.

BIOLOGICAL RESOURCES

77. Page 2, First Full Paragraph:

The evidence shows that the Applicant recently proposed some minor modifications to the GSEP that were not discussed in their Application for Certification (AFC) or analyzed in Staff's analysis. These modifications include a six-pole transmission line extension at the Colorado River Substation and an electrical distribution/telecommunications line. Construction of six additional poles will result in disturbance to 6.5 acres from construction and laydown areas, conductor pulling areas, and the transmission access. Within this temporary 6.5 - acre impact area 1.2 acres will be permanently affected due to the 6-foot by 6-foot pole construction pad and the 3,700-foot long, 14-foot wide transmission maintenance road. Staff analyzed the temporary and permanent impacts of these recent minor project modifications to biological resources (Ex. 403, pp. C.2-5 through C.2-8.)

78. Page 6, Desert Tortoise Surveys:

Protocol-level surveys of most of the Study area for the desert tortoise were conducted between March 17 – 25 and April 6 – 13, 2009 (Study area except south of I-10) and October 30, 2009 (transmission line south of I-10). The transmission line route changed after spring surveys; <u>surveys for</u> the northern alignment were conducted in <u>was included in spring surveys</u>, <u>but not to the same level of intensity as the rest of the Study area, and further surveys are scheduled for Spring 2010 (Ex. 58)</u>. Survey results of the Project Disturbance Area include 19 mineralized and 9 non-mineralized carcass fragments. Preliminary spring 2010 surveys identified approximately 30 tortoise bone fragments (>> 4 years age) along the transmission line and buffer area. (Ex. 400, pp. C.2-36 to C.2-37.)

79. Page 7:

The evidence shows that the Project Disturbance Area is currently unoccupied by desert tortoise and the northwestern portion of the GSEP site is suitable or marginally suitable habitat. ,while the remainder of the site is not habitat for desert tortoise. The Sonoran creosote bush scrub and wash habitat north and west of the GSEP site is higher quality habitat. Energy Commission, BLM, CDFG and USFWS staff agree that the habitat within the Project Disturbance Area is of lower quality closer to the Ford playa and is higher quality toward the upper bajadas, but consider the entire GSEP site to contain suitable habitat for desert tortoise (e.g., Sonoran creosote bush scrub with friable soils for burrowing and appropriate forage plants) and could potentially be occupied by this species in the future. (Ex. 400, p. C.2-37.)

80. Page 7, Mojave Fringe-Toed Lizard Surveys:

The evidence indicates that the Project Disturbance Area contains suitable Mojave fringe-toed lizard habitat wherever stabilized and partially stabilized sand dune habitat (7.5 28 acres) and playa/sand drift over playa habitat (38 37 acres) occur. Mojave fringe-toed lizard habitat preferences are more closely tied to the landform than to the vegetation community, and Sonoran creosote bush scrub habitat with an active sand layer can also support this species. This species was detected south of I-10 in Sonoran creosote bush scrub because this area supports a layer of wind-blown sand from the adjacent dunes. (Ex. 400, p. C.2-38; Ex. 403, C.2-8, Table 6)

81. Page 8, Paragraph 2:

Staff counters that an adequate baseline survey was provided for Couch's spadefoot toad breeding habitat at the Genesis project site, with on-the-ground field surveys conducted by the Applicant and by Staff, and with verification by review of aerial photography. As Staff described (RSA, C.2-38-C.2-39) and as the Applicant's expert testified at the Evidentiary Hearing (7/12/10 RT 78:13-81:14), presence/absence surveys for spadefoot toads are not a prerequisite for an adequate impact analysis or for development of mitigation measures. Staff made the conservative assumption that this species could occur at the GSEP site without surveys confirming their presence because they are such a difficult species to detect. (Staff's Reply Brief 8/2/10, p. 5-6.)

A Lead Agency is not required to obtain every last bit of information to conduct its analysis. An EIR must include detail sufficient to enable those who did not participate in its preparation to understand and to consider meaningfully the issues raised by the proposed project. (Laurel Heights Improvement Association v Regents of University of California (1988) 47 Cal.3d 376, 404-405)) but CEQA does not require agencies to "conduct every test and perform all research, study, and experimentation recommended to it by interested parties." (Society for California Archaeology v. County of Butte (1977) 65 Cal.App.3d 832, 838.) "Indeed, a project opponent or reviewing court can always imagine some additional study or analysis that might provide helpful information," but "[i]t is not for them to design the EIR." (Laurel Heights Improvement Ass. v. Regents of the Univ. of Calif. (1988) 47 Cal.3d 376, 415).

82. Pages 12 – 15: Changes to Biological Resources Table 2 and Table 3:

Biological Resources Table 2 Summary of Impacts and Mitigation

Biological Resource	Impact/Mitigation		
Sonoran Creosote Bush Scrub & Associated Wildlife	Direct Impacts: Permanent loss of 1,773 1,774 acres; fragmentation of adjacent wildlife habitat and native plant communities Indirect Impacts: Disturbance (noise, lights, dust) to surrounding plant and animal communities; spread of non-native invasive weeds; changes in drainage patterns downslope of Project; erosion and sedimentation of disturbed soils. Cumulative Impacts: Contributes 0.8% to cumulative loss from probable future projects within the NECO planning area Mitigation: Off-site habitat acquisition and enhancement (BIO-12); implement impact avoidance and minimization measures (BIO-8) and Weed Control Plan (BIO-14)		
Waters of the State & Associated Sensitive Plant Communities	Direct Impacts: Loss of hydrological, geomorphic, and biological functions and values of 69 91 acres of State waters (53 73 acres permanent loss, 18 acres temporary loss) including 16 acres of microphyll woodland Permanent loss of 69 acres of state waters, including 16 acres of microphyll woodland. Temporary direct impacts to 18 acres. Loss of important wildlife habitat function and values, and impaired or lost hydrologic and geomorphic functions necessary to sustain the habitat Indirect Impacts: Permanent loss of hydrological connectivity downstream of the Project, including 21c acres unvegetated ephemeral wash; head-cutting on drainages upslope and erosion/sedimentation downslope; * Cumulative Impacts: Contributes 2.9% to cumulative loss from future projects within the NECO planning area; contributes 4.6% to cumulative loss from future projects within the Chuckwalla- Ford Dry Lake watershed. Mitigation: Acquisition and enhancement of 111 132 acres ephemeral desert washes, implementation of avoidance and minimization measures to protect state waters (BIO-22); implement Weed Management Plan (BIO-14)		
Desert Tortoise	Direct Impacts: Potential take of individuals during operation and construction; permanent loss of 1,774 1, 773 acres (including 24 23 ^d acres of critical habitat) of desert tortoise habitat and fragmentation of surrounding habitat. Indirect Impacts: Increased risk of predation from ravens, coyotes, feral dogs; disturbance from increased noise and lighting; introduction and spread of weeds; increased road kill hazard. Cumulative Impacts: Contributes to cumulative loss of low to moderate value desert tortoise habitat (2.0% to 0.1 habitat value, 2.9% to 0.2 habitat value, 0.1% to 0.3 habitat value) from future projects in the NECO planning area; Mitigation: Implement avoidance and minimization measures (BIO-6 through BIO-11) and acquire 1,870 1,864 acres of desert tortoise habitat (BIO-12).		

Biological Resource	Impact/Mitigation
Mojave Fringe-Toed Lizard	Direct impacts: Mortality to individuals during construction and permanent loss of 7.5 4 acres of sand dune habitat and 38 37 acres of sand drift over playa; increased road kill hazard from construction traffic; potential accidental direct impacts to adjacent preserved habitat during construction and operation. Indirect impacts: Disruption of sand transport corridor resulting in downwind impacts to 151° acres; introduction and spread of invasive plants; erosion and sedimentation of disturbed soils; fragmentation and degradation of remaining habitat; increased road kill hazard from construction and operations traffic; harm from accidental spraying/drift of herbicides and dust suppression chemicals. Cumulative Impacts: Contributes 0.2% to cumulative loss from future projects within the NECO planning area; contributes 1.7% to cumulative loss from future projects within the range of the Chuckwalla Valley population. Mitigation: Implement BIO-20, Mojave fringe-toed lizard compensation, and BIO-8, impact avoidance and minimization measures
Couch's Spadefoot Toad	Direct Impacts: loss of breeding and upland habitat, mortality of individuals; disturbance to breeding ponds, Indirect Impacts: reduced flow to breeding areas, increased flow to upland habitat, construction noise could trigger emergence when conditions are not favorable. Cumulative Impacts: Contributes 1.6% to cumulative loss of habitat from future projects within the NECO planning area. Mitigation: Conduct surveys and implement impact avoidance and minimization measures, avoidance and protection of breeding habitat BIO-27 (Couch's spadefoot toad impact avoidance and minimization measures).
Western Burrowing Owl	Direct Impacts: Permanent loss of foraging habitat; potential loss of eggs and young; degradation and fragmentation of remaining adjacent habitat from edge effects; disturbance of nesting and foraging activities for nesting pairs near the plant site and linear facilities; Indirect Impacts: increased road kill hazard from operations traffic; potential collision with mirrors; increased predation from ravens; disturbance of nesting activities from operations. Cumulative Impacts: Contributes 0.5% to cumulative loss from future projects within the NECO planning area. Mitigation: Implement burrowing owl impact avoidance and mitigation measures, including habitat acquisition if owls are displaced by the Project (BIO 18, Burrowing owl impact avoidance, minimization, and compensation measures)

Biological Resource	Impact/Mitigation
•	Direct/Indirect Impact: Loss of foraging habitat; potential
	disturbance to nesting golden eagles during construction if active
	nests occur within one 10 miles of Project boundaries
	Cumulative Impacts: Contributes 7.4% to cumulative loss of
	Sonoran creosote bush scrub and 0.2% to loss of dry desert wash
	woodland, and 0.6% to loss of sand dune foraging habitat from future
Golden Eagle	projects within the NECO planning area within 10 miles of the Project.
Coldon Lagio	Contributes 0.8% to cumulative loss of Sonoran creosote bush scrub and 0.03% to loss of dry desert wash woodland, and 0.6% to loss of
	sand dune foraging habitat from future projects within 10 miles of the
	nearest mountains.
	Mitigation: Implementation of Golden Eagle Nest Inventory and
	Monitoring (BIO-28) and off-site habitat acquisition and enhancement
	for desert tortoise will protect eagle foraging habitat (BIO-12);
	additional mitigation may be required pending USFWS guidance.
	Direct Impacts: Permanent loss of breeding and foraging habitat,
	including loss of 1,774 1,773 a,f acres of Sonoran creosote bush
	scrub and 16 ^b acres of microphyll woodland; potential loss of eggs
	and young; disturbance of nesting and foraging activities for
	populations on and near the plant site and linear facilities;
Special-Status Birds & Migratory Birds	degradation and fragmentation of remaining adjacent habitat from edge effects.
	Indirect Impacts: increased road kill hazard from operations traffic
	and collision with mirrors; increased predation from ravens;
	disturbance from operations.
	Cumulative Impacts: Contributes 0.6% to cumulative loss of habitat
	from future projects within NECO planning area.
	Mitigation: Implement impact avoidance and minimization measures
	(BIO-8); pre-construction nest surveys (BIO-15); avian protection plan (BIO-16) off-site habitat acquisition and enhancement (BIO-12
	and BIO-22)
	Direct Impacts : Permanent loss of 1,811 ^{a,t} acres of foraging and
	denning habitat; fragmentation and degradation of remaining habitat,
	loss of foraging grounds, crushing or entombing of animals during
	construction; increased risk of road kill hazard from construction
	traffic.
Desert Kit Fox & American	Indirect Impacts: Disturbance from increased noise and lighting;
Badger	introduction and spread of weeds; increased risk of road kill from operations traffic.
	Cumulative Impacts: Contributes 0.5% to cumulative loss of habitat
	from future projects within the NECO planning area.
	Mitigation: Implementation of impact avoidance and minimization
	measures (BIO-8), conduct pre-construction clearance surveys (BIO-
	17); off-site habitat acquisition and enhancement (BIO-12 and BIO-
	Disast Impacts: None
	Direct Impacts: None
Nelson's bighorn sheep	Indirect Impacts: harassment from elevated construction noise Cumulative Impacts: None
140130113 bigiloiti 31100p	Mitigation: Implementation of noise-related avoidance and
	minimization measures (BIO-8).
	Direct/Indirect/Cumulative Impacts: Loss of foraging habitat.
Bats	Mitigation: off-site habitat acquisition and enhancement (BIO-12 and
Dais	BIO-22)

Impact/Mitigation			
Chuckwalla DWMA/Desert Tortoise Critical Habitat: Impacts to 24			
23 ^d acres ACEC: None WHMA: Impacts to1,811 ^{a,f} acres Mitigation: Mitigate loss of critical habitat with acquisition and preservation of suitable desert tortoise at a 5:1 ratio (BIO-12).			
Direct Impacts: Potential impacts to BLM Sensitive Harwood's eriastrum (CNPS 1B) from gen-tie construction near substation; Harwood's milk-vetch (CNPS 2) on linears and solar plant site; desert unicorn plant (CNPS 4) at solar plant site; ribbed cryptantha (CNPS 4) on linears and solar plant site. Potential direct impacts to CNPS 1B, 2, 4 and new taxa detected during late season surveys. Indirect impacts: Fragmentation/isolation and reduced gene flow between isolated fragments of area population; introduction and spread of invasive plants; erosion and sedimentation of disturbed soils; potential disruption of sand transport systems that maintain habitat below the Project; alteration of drainage patterns; herbicide drift; disruption of photosynthesis and other metabolic processes from dust. Construction of SCE substation could cause loss of over 1000 individuals of Harwood's eriastrum. Cumulative Impacts: Contributes to cumulative loss of plants and habitat, and indirect effects to Harwood's eriastrum, Harwood's milk-vetch, desert unicorn plant and ribbed cryptantha from other I-10 corridor projects and throughout range. Contributes 0.7% to cumulative loss of Harwood's milk-vetch habitat from future projects within the NECO Planning Area. Contributes cumulative loss of dune, playa-, and wash habitat for other special-status species in Chuckwalla Valley: 4.6% desert washes in Chuckwalla Valley; 1.7% dunes and sand fields; 0.2% playa. Mitigation: Implement BIO-19 - avoidance requirements for Harwood's eriastrum; off-site compensation or restoration mitigation for Harwood's milk-vetch; general avoidance and minimization measures for all special-status plants. Implement late-season surveys and mitigate according to triggers and performance standards in BIO-19. Indirect effects and impacts to habitat also addressed in Weed Management Plan (BIO-14); Best Management Practices (BIO-8); special-status plant impact avoidance and minimization measures and potential habitat compensation (BIO-19), acquisition of sand dune ha			
Direct: None Indirect/Cumulative: None; with dry cooling, impacts to groundwater plant communities would be less than significant. Degradation of groundwater-dependent plant communities (e.g., mesquite bosque, bush seep-weed) from water table drawdown Mitigation: None Conduct long-term monitoring of groundwater-dependent vegetation (BIO-25) and implement adaptive management, if necessary (BIO-26).			

Source: (Ex .400, Table 5, pp. C.2-64 to C.2-67.)

Biological Resources Table 3 Acreage of Direct and Indirect Impacts to Biological Resources and Recommended Mitigation

Resource	Acres Impacted	Mitigation Ratio	Recommended Mitigation Acreage
Desert Tortoise Habitat – Direct Impacts			
Within DWMA/Critical Habitat	24	5:1	120
Outside Critical Habitat	1,750	1:1	1,750
Total Desert Tortoise Mitigation			1,870
Stabilized/Partially Stabilized Sand Dunes – Direct Impacts			
Direct Impacts	7.5	3:1	22
Playa and Sand Drifts Over Playa			
Direct Impacts	38	3:1	114
Indirect Impacts to MFTL Habitat	151	0.5:1	76
Total Mojave Fringe-toed Lizard Mitigation			<u>136</u> 212
State Waters* - Direct Impacts			
Microphyllous Riparian Vegetation	16	3:1	48
Unvegetated Ephemeral Dry Wash	53	1:1	53
State Waters- Indirect Impacts			
Unvegetated Ephemeral Dry Wash	21	0.5:1	10
Total State Waters Mitigation			111

Source: Ex. 403, Table 6, p. C.2-8.

83. Page 17, Impacts to Special-status Species:

Mojave Fringe-toed Lizard. The GSEP will directly impact 45.5 38 acres of Mojave fringe-toed lizard habitat (comprised of including 7.5 acres of dunes and 38 acres of playa with sand drifts) and indirectly affect 151 acres of habitat downwind of the Project Disturbance Area. The indirect impact results from the Project solar arrays extending into the sand transport corridors, diminishing the input of sand to downwind areas and reducing the active sand layer that is crucial to Mojave fringe-toed lizard habitat. The Mojave fringe-toed lizards in the Chuckwalla Valley are at the southernmost portion of the species range, and the GSEP could increase the risks of local extirpation of an already fragmented and isolated population. Condition of Certification BIO-20 requires acquisition and protection of habitat supporting core populations of Mojave fringe-toed lizard habitat in the Chuckwalla Valley, which will reduce GSEP impacts to less than significant levels. (Ex. 400, pp. C.2.1 to C.2-2 and pp. C.2-74 to C.2-76.)

84. Page 19: Last Paragraph:

To offset the loss of 1,774 1,773 acres of desert tortoise habitat, Condition of Certification BIO-12 recommends habitat compensation at a 1:1 ratio for desert tortoise (i.e., acquisition and preservation of one acre of compensation lands for every acre lost). For Project impacts to 24 23 acres of Chuckwalla Desert Critical Habitat Unit, the mitigation ratio will be 5:1. The acquisition of compensatory mitigation lands offsets Project impacts to desert tortoise and other sensitive species by protection of those lands, and by enhancement actions such as fencing, road closure, weed control, and habitat restoration. The protection and enhancement actions increase the carrying capacity of the acquired lands for desert tortoise, which increases their population numbers by enhancing survivorship and reproduction. (Ex. 400, p.C.2-81). This compensatory mitigation is consistent with recommendations from the California Department of Fish and Game (CDFG), the U.S. Fish and Wildlife Service (USFWS), and BLM guidance in the NECO. Condition of Certification **BIO-12** also requires that the land acquisitions be within the Colorado Desert Recovery Unit, and have potential to contribute to desert tortoise habitat connectivity and build linkages between desert tortoise populations and designated critical habitat. These conditions satisfy the CDFG's requirements under Section 2081 of the California Fish and Game Code. (Ex. SA, pp. C.2-79 to C.2-82.)

85. Page 21: Last Paragraph:

The evidence indicates that GSEP construction activities could potentially injure or disturb golden eagles if nests were established sufficiently close to the GSEP boundaries to be affected by the sights and sounds of construction. Because Tthese potential impacts are unlikely, but if active golden eagle were established within 10 miles of the GSEP boundaries, disturbance to nesting activities will be avoided with implementation of Condition of Certification BIO-28 (Golden Eagle Inventory and Monitoring) for those nests found within one mile of construction activities. This condition requires that during construction, golden eagle nest surveys be conducted in accordance with USFWS guidelines to verify the status of golden eagle nesting territories within one mile 10 miles of the project boundaries. If active nests are detected, BIO-28 requires monitoring guidelines, performance standards, and adaptive management measures to avoid adverse impacts to golden eagles from GSEP construction. Implementation of BIO-28 will reduce potential impacts of GSEP construction on nesting golden eagles to less than significant levels. (Ex. 400, p. C.2-89.)

86. Page 22:

<u>Migratory/Special-status Bird Species</u>. Several special-status species, such as black-tailed gnatcatchers, yellow warblers, and crissal thrashers, breed in the region, but will not breed on the site due to lack of suitable habitat. This region does not provide breeding habitat for Swainson's hawks, northern harriers, short-

eared owls, ferruginous hawks, or Brewer's sparrows but may provide overwintering habitat or the species may be present during migration. The GSEP impacts to Sonoran creosote bush scrub and microphyll woodland will contribute to loss of foraging habitat, cover, and roost sites for these species on their migratory or wintering grounds, but will not contribute to loss of breeding habitat. The GSEP will have more substantial adverse effects to the resident breeding birds at the site, which include loggerhead shrike, California horned lark, and Le Conte's thrasher among others. These species will be adversely affected by the loss of 16 acres of microphyll woodland and 1,774 1,773 acres of Sonoran creosote bush scrub. Le Conte's thrasher, loggerhead shrikes and other washdependent species will in particular be affected by the loss of the cover, foraging and nesting opportunities provided by the structurally diverse and relatively lush dry washes and microphyll woodland. Dry washes contain less than five percent of the Sonoran Desert's area, but are estimated to support ninety percent of Sonoran Desert birdlife. As discussed in the cumulative impact subsection, the evidence shows that the GSEP will be a substantial contributor to the cumulative loss of the NECO Planning Area's biological resources, including habitat for these special-status birds. Condition of Certification BIO-12, the desert tortoise compensatory mitigation plan and BIO-22, mitigation for impacts to state waters, will offset the Project's direct impacts and its contribution to cumulative loss of habitat for these species. (Ex. 400, pp. C.2-90 to C.2-91.)

87. Page 25: After last paragraph, add the following:

The special-status plant surveys at the project site were extensive, highly professional, covered multiple years, and are legally sufficient for a CEQA analysis. With this survey data, as well as expert opinion, multiple site visits by staff, an exhaustive review of databases and literature, and a review of GIS data on ownership and threats to occurrences from other projects, staff conducted a thorough analysis of impacts to late season plants potentially occurring in the Project area. The information was adequate for staff to conclude that the Genesis Project's impacts to late season special-status plants, if present, are significant, and that avoidance, minimization, and compensation measures—with detailed and measurable performance standards—are required. Staff commits the Project to conducting the late season surveys prior to construction, and provides thresholds for significance and triggers for mitigation for any such plants detected, based on status, rarity, extinction risk, and the portion of the local population affected. (Staff Assessment C.2-2, C.2-3, C.2-7.)

88. Page 26: First paragraph, revise as follows:

We see nothing wrong with Staff's conservative approach of assuming the worst case scenario as a baseline for impacts analysis and mitigation, then verifying the results in subsequent surveys.

89. Page 28, Bottom of Page:

The 60dBA noise threshold re noise levels impacting sensitive wildlife during construction should be substituted with 65 dBA threshold agreed at hearing. 7/21/10 RT 127-128.

90. Page 31, Lighting During Operations:

Switched lighting will be provided for areas where continuous lighting is not required for normal operation, safety, or security. These features have been incorporated into Condition of Certification <u>VIS-2</u> VIS-4 (Temporary and Permanent Exterior Lighting) and **BIO-8**. With implementation of these measures, lighting at the GSEP will have no adverse effects on wildlife. (Ex. SA, p. C.2-92.)

91. Page 31, Avian Collision Hazards:

As described above, operation of the GSEP will require onsite nighttime lighting for safety and security at the site. The transmission line support structures will not be lit and no red incandescent lighting is proposed. With implementation of Conditions of Certification VIS-2 VIS-3 and BIO-8 pertaining to minimization of night lighting, lighted GSEP facilities will not pose a significant collision hazard at night. (Ex. 400, p. C.2-96.)

92. Page 34:

The Considerable uncertainty remains as to about the potential extent of the GSEP's impacts to groundwater and the potential adverse effects to groundwater dependent sensitive plant communities and to wildlife has been resolved because the applicant has reduced his proposed water use significantly when switching from wet cooling to dry cooling. Staff has concluded that with dry cooling, impacts to groundwater-dependent vegetation would not be significant, and therefore the monitoring and mitigation specified in Conditions of Certification BIO-25 and BIO-26 are not needed. To ensure that the Project's proposed use of groundwater does not lower groundwater levels in the basin so that biological resources are significantly and adversely affected, the Applicant will develop a vegetation monitoring program and identify what changes are occurring in basin water levels and in groundwater-dependent vegetation. Substantial changes in the vigor of groundwater-dependent vegetation will be monitored and documented under the Vegetation Monitoring and Reporting Plan outlined in Condition of Certification BIO-25. Condition of Certification BIO-26 specifies remedial action to be taken if adverse effects are detected. These measures will be sufficient to ensure that the groundwater pumping for the GSEP will not result in significant adverse impacts to groundwater-dependent ecosystems in the Chuckwalla Basin. (Ex. 400, p. C.2-3 and C.2-117 to C.9-122; **C.2-131**.)

93. Page 35, paragraph 4, line 4:

The record supports the conclusion that the odds of these two events occurring simultaneously are infinitesimal **Iy small**. Further, the biological impacts that would be attributable to the all-terrain fire trucks driving to this event, should it ever happen, are speculative at best. We also note that the action of purchasing emergency vehicles does not, in itself, create any significant impact on biological resources.

94. Page 35: Last full paragraph, delete first word, "Ironically,"

95. Page 37, last paragraph:

These workers will have completed the Workers Environmental Awareness Program as required by Condition of Certification **BIO-6** and will be sensitized to the fragile vulnerability of the desert environment. The project owner is highly motivated to protect biological resources in the vicinity of the project. In addition, CUL-16 requires a guard or construction of a security gate at the south end of the access road to prevent unauthorized access, a measure that would further protect sensitive biological resources from illegal off-road use. Thus, the evidence supports a more reasonable inference that unauthorized off-road vehicle use in the vicinity of the GSEP will decrease because the increased presence of people will deter illegal off-road use due to the higher probability of detection. We find Conditions of Certification **BIO-6**, and **BIO-8** and **CUL-16** mitigates the impacts from the new paved road below significance.

96. Page 43, State LORS:

Incidental Take Permit: California Endangered Species Act (Fish and Game Code §§ 2050 et seq.) The California Endangered Species Act (CESA) prohibits the "take" (defined as "to hunt, pursue, catch, capture, or kill") of state-listed species except as otherwise provided in state law. Construction and operation of the Project could result in the "take" of desert tortoise, listed as threatened under CESA. Condition of Certification BIO-12 specifies compensatory mitigation for desert tortoise habitat loss at a 1:1 ratio. Avoidance and minimization measures described in conditions of certification BIO-6 through BIO-11 and BIO-13 will also mitigate for potential impacts to desert tortoise. The evidence suggests that this funding and mitigation approach would ensure compliance with CESA.

97. Page 43, Streambed Alteration Agreement: California Fish and Game Code §§ 1600 1607:

Pursuant to these sections, CDFG typically regulates all changes to the natural flow, bed, or bank, of any river, stream, or lake that supports fish or wildlife resources. Construction and operation of the Project would result in direct impacts to 69 91 acres of waters of the state and 21 acres of indirect impacts.

Condition of Certification **BIO-22** would minimize and offset direct and indirect impacts to state waters and would assure compliance with CDFG codes that provide protection to these waters. (Ex. 400, pp. C.2-176 to C.2-177.)

98. Page 44:

Critical Habitat consists of specific areas defined by the USFWS as areas essential for the conservation of the listed species, which support physical and biological features essential for survival and that may require special management considerations or protection. Critical habitat for the desert tortoise was designated in 1994, largely based on proposed DWMAs in the draft Recovery Plan. The linear facilities overlap with <u>24</u> <u>23</u> acres of the Chuckwalla Desert Tortoise Critical Habitat Unit.

99. Page 45:

Endangered Species Act (ESA; 16 USC Section 1531 et seq.) Potential take of the desert tortoise, listed as threatened by the USFWS, requires compliance with the federal Endangered Species Act (ESA) (16 USC §§ 1531 et seq.). "Take" of a federally-listed species is prohibited without an Incidental Take Permit, which would be obtained through a Section 7 consultation between BLM and the USFWS. The Applicant will has submitted a Draft Biological Assessment (BA) for the Project to BLM, and when BLM has initiated formal Section 7 consultation with the USFWS. reviewed and made appropriate revisions to the draft BA it will be submitted to the USFWS so that the formal Section 7 consultation process can be initiated.

100. Page 46:

Insert just before **FINDINGS OF FACT**: <u>CURE and CBD submitted "comments" which were essentially identical to the arguments made in their briefs already considered in the record. The Decision addresses both CURE and CBD's arguments, above.</u>

101. Page 46, Finding of Fact #4:

No live desert tortoises were found within the plant site boundary during the 2009 **and 2010** protocol level surveys and preliminary 2010 surveys.

102. Page 47, Findings of Fact #8:

The study area contains suitable Mojave fringe-toed lizard habitat wherever stabilized and partially stabilized sand dune habitat (<u>7.5</u> 28 acres) and playa/sand drift over playa habitat (<u>37 38 acres</u>) occur.

103: Page 47, Finding of Fact #10:

Habitat fragmentation impacts will be mitigated to less than significant levels with Condition of Certification **BIO-12 and BIO-20**.

104: Page 47, Finding of Fact # 21:

Condition of Certification **BIO-12** requires the Applicant to acquire and enhance at least <u>1,870</u> <u>1,864</u> acres of suitable habitat for desert tortoise to offset anticipated habitat loss associated with construction of the GSEP.

105. Page 48, Finding of Fact #25:

With implementation of Condition of Certification **BIO-22**, impacts to <u>90</u> 94 acres of state waters and loss of the hydrological and biological functions of the project site desert washes will be mitigated to less-than-significant levels.

106. Page 49, Findings of Fact #40:

Conditions of Certification VIS-2 VIS-3 and BIO-8 ensure that construction lighting at the GSEP will have no adverse effects on wildlife

107. Page 49, Finding of Fact #47:

With implementation of <u>dry cooling rather than wet cooling.</u> Conditions of Certification **BIO-25** and **BIO-26**, the groundwater pumping for the GSEP will not result in significant impacts to groundwater-dependent ecosystems in the Chuckwalla Basin

108. Page 54, BIO-5:

Designated Biologist and Biological Monitor Authority

BIO-5

The Project owner's construction/operation manager shall act on the advice of the Designated Biologist and Biological Monitor(s) to ensure conformance with the biological resources conditions of certification. The Project owner shall provide Energy Commission staff with reasonable access to the Project site under the control of the Project owner and shall otherwise fully cooperate with the Energy Commission's efforts to verify the Project owner's compliance with, or the effectiveness of, mitigation measures set forth in the conditions of certification. The Designated Biologist shall have the authority to immediately stop any activity that is not in compliance with these conditions and/or order any reasonable measure to avoid take of an individual of a listed species. If required by the Designated Biologist and Biological Monitor(s) the Project owner's construction/operation manager shall halt all site

mobilization, ground disturbance, grading, boring, trenching and operation activities in areas specified by the Designated Biologist. The Designated Biologist shall:

- Require a halt to all activities in any area when determined that there would be an unauthorized adverse impact to biological resources if the activities continued:
- 2. Inform the Project owner and the construction/operation manager when to resume activities; and
- 3. Notify the CPM and BLM if there is a halt of any activities and advise them of any corrective actions that have been taken or would be instituted as a result of the work stoppage. If the work stoppage relates to desert tortoise or any other federal- or state-listed species, the Carlsbad Office of USFWS and the Ontario Office of CDFG shall also be notified.

If the Designated Biologist is unavailable for direct consultation, the Biological Monitor shall act on behalf of the Designated Biologist.

<u>Verification</u>: The Project owner shall ensure that the Designated Biologist or Biological Monitor notifies the CPM <u>and BLM</u> immediately (and no later than the morning following the incident, or Monday morning in the case of a weekend) of any non-compliance or a halt of any site mobilization, ground disturbance, grading, construction, or operation activities. <u>If the non-compliance or halt to construction or operation relates to desert tortoise or any other federal- or statelisted species, the Project owner shall also notify the Carlsbad Office of USFWS and the Ontario Office of the CDFG at the same time. The Project owner shall notify the CPM <u>and BLM</u> of the circumstances and actions being taken to resolve the problem.</u>

Whenever corrective action is taken by the Project owner, a determination of success or failure will be made by the CPM, in consultation with USFWS, CDFG and BLM, within five working days after receipt of notice that corrective action is completed, or the Project owner would be notified by the CPM that coordination with other agencies would require additional time before a determination can be made.

109. Page 55, BIO-6:

Worker Environmental Awareness Program (WEAP)

BIO-6 The Project owner shall develop and implement a Project-specific Worker Environmental Awareness Program (WEAP) and shall secure approval for the WEAP from the CPM. The Project owner shall also provide the BLM, USFWS and CDFG a copy of all

portions of the WEAP relating to desert tortoise and any other federal or state-listed species for review and comment. The WEAP shall be administered to all onsite personnel including surveyors, construction engineers, employees, contractors, contractor's employees, supervisors, inspectors, subcontractors, and delivery personnel. The WEAP shall be implemented during site preconstruction, construction, operation, and closure. The WEAP shall:

<u>Verification</u>: At least 30 days prior to start of construction-related ground disturbance the Project owner shall provide to the CPM for review and approval, and to the USFWS and CDFG for review, a copy of the final WEAP and all supporting written materials and electronic media prepared or reviewed by the Designated Biologist and a resume of the person(s) administering the program.

Throughout the life of the Project, the WEAP shall be repeated annually for permanent employees, and shall be routinely administered within one week of arrival to any new construction personnel, foremen, contractors, subcontractors, and other personnel potentially working within the Project area. Upon completion of the orientation, employees shall sign a form stating that they attended the program and understand all protection measures. These forms shall be maintained by the Project owner and shall be made available to the CPM, BLM, USFWS and CDFG and upon request. Workers shall receive and be required to visibly display a hardhat sticker or certificate that they have completed the training.

During Project operation, signed statements for operational personnel shall be kept on file for six months following the termination of an individual's employment.

110. Page 56, BIO-7:

Biological Resources Mitigation Implementation and Monitoring Plan

BIO-7

The Project owner shall develop a Biological Resources Mitigation Implementation and Monitoring Plan (BRMIMP), and shall submit two copies of the proposed BRMIMP to the CPM for review and approval. The Project owner shall implement the measures identified in the approved BRMIMP. The BRMIMP shall incorporate avoidance and minimization measures described in final versions of the Desert Tortoise Translocation Plan, the Raven Management Plan, the Closure, Conceptual Restoration Plan, the Burrowing Owl Mitigation and Monitoring Plan, and the Weed Management Plan, and all other individual biological mitigation and/or monitoring plans associated with the Project. The Project owner shall provide to BLM, CDFG, and USFWS a copy of all portions of the BRMIMP

relating to desert tortoise and any other federal or state-listed species for review and comment.

The BRMIMP shall be prepared in consultation with the Designated Biologist and shall include accurate and up-to-date maps depicting the location of sensitive biological resources that require temporary or permanent protection during construction and operation. To address potential impacts of climate change in the implementation and monitoring of biological resource mitigation measures, the Project owner shall make use of available climatalogical data when analyzing project effects or resource trends. The BRMIMP shall include complete and detailed descriptions of the following:

<u>Verification</u>: The Project owner shall submit the draft BRMIMP to the CPM at least 30 days prior to start of any preconstruction site mobilization and construction-related ground disturbance, grading, boring, and trenching. <u>At the same time, the Project owner shall provide to BLM, USFWS, and CDFG a copy of all portions of the draft BRMIMP relating to desert tortoise and any other federal or state-listed species. The Project owner shall provide and the final BRMIMP to the CPM, BLM, USFWS and CDFG at least 7 days prior to start of any construction-related ground disturbance, grading, boring, and trenching. The BRMIMP shall contain all of the required measures included in all biological Conditions of Certification. No construction-related ground disturbance, grading, boring or trenching may occur prior to approval of the final BRMIMP by the CPM.</u>

To verify that the extent of construction disturbance does not exceed that described in this analysis, the Project owner shall submit aerial photographs, at an approved scale, taken before and after construction to the CPM, BLM, USFWS and CDFG. The first set of aerial photographs shall reflect site conditions prior to any preconstruction site mobilization and construction-related ground disturbance, grading, boring, and trenching, and shall be submitted prior to initiation of such activities. The second set of aerial photographs shall be taken subsequent to completion of construction, and shall be submitted to the CPM, BLM, USFWS and CDFG no later than 90 days after completion of construction. The Project owner shall also provide a final accounting of the acreages of vegetation communities/cover types present before and after construction.

Any changes to the approved BRMIMP must be approved by the CPM and in consultation with CDFG, <u>BLM</u> and USFWS.

111. Page 58, BIO-8:

IMPACT AVOIDANCE AND MINIMIZATION MEASURES

BIO-8 The Project owner shall undertake the following measures to manage the <u>Project</u> construction site and related facilities in a manner to avoid or minimize impacts to biological resources:

#10 Avoid Vehicle Impacts to Desert Tortoise. Parking and storage shall occur within the area enclosed by desert tortoise exclusion fencing to the extent feasible. No vehicles or construction equipment parked outside the fenced area shall be moved prior to an inspection of the ground beneath the vehicle for the presence of desert tortoise. If a desert tortoise is observed, it shall be left to move on its own. A Designated Biologist or Biological Monitor under the Designated Biologist's direct supervision may remove and relocate the animal to a safe location as described in the Applicant's Desert Tortoise Translocation Plan. If it does not move within 15 minutes, a Designated Biologist or Biological Monitor under the Designated Biologist's direct supervision may move it out of harm's way of the disturbed area as described in the USFWS Desert Tortoise Field Manual (USFWS 2009).

#13 Dispose of Road-killed Animals. During construction, road killed animals or other carcasses detected by personnel on roads associated with the Project area will be reported immediately to a Biological Monitor or Designated Biologists, who will remove the roadkill promptly for disposal (e.g., removal to a landfill or disposal at the Project site). During operations, the Project Environmental Compliance Monitor will be notified of any roadkills and promptly remove and dispose of any roadkills. For special-status species road-kill, the Biological Monitor shall contact the Ontario Office of CDFG and the Carlsbad Office of USFWS within 1 working day of receipt detection of the carcass for guidance on disposal or storage of the carcass. The Biological Monitor shall report the special-status species record as described in BIO-11 below.

<u>Verification</u>: If loud construction activities are proposed between February 15 to April 15 which would result in noise levels over 65 dBA in nesting habitat, the Project owner shall submit nest survey results (as described in 9a) to the CPM no more than 7 days before initiating such construction. If an active nest is detected within this survey area the Project owner shall submit a Nesting Bird Monitoring and Management Plan to the CPM for review and approval no more than 7 days before initiating noisy construction.

All mitigation measures and their implementation methods shall be included in the BRMIMP and implemented. Implementation of the measures shall be reported in the Monthly Compliance Reports by the Designated Biologist. Within 30 days after completion of Project construction, the Project owner shall provide to the CPM, for review and approval, a written construction termination report identifying how measures have been completed. As part of the Annual Compliance Report each year following construction, the Designated Biologist shall provide a report to the CPM and BLM that describes compliance with avoidance and minimization measures to be implemented during construction, operation, and maintenance (for example a summary of the incidence of roadkilled animals during the year, implementation of measures to avoid toxic spills, erosion and sedimentation, efforts to enforce worker guidelines, etc.).

112. Page 64, BIO-9, sub-part 1:

- BIO-9 The Project owner shall undertake appropriate measures to manage the construction site and related facilities in a manner to avoid or minimize impacts to desert tortoise. Methods for clearance surveys, fence specification and installation, tortoise handling, artificial burrow construction, egg handling and other procedures shall be consistent with those described in the USFWS' 2009 Desert Tortoise Field Manual http://www.fws.gov/ventura/speciesinfo/protocols_guidelines or more current guidance provided by CDFG and USFWS. The Project owner shall also implement all terms and conditions described in the Biological Opinion prepared by USFWS. These measures include, but are not limited to, the following:
 - 1. <u>Desert Tortoise Exclusion Fence Installation</u>. Per the Applicant's Desert Tortoise Translocation Plan, in order to avoid impacts to desert tortoises, permanent desert tortoise exclusion fencing shall be installed along the permanent perimeter security fence; along the utility corridors, temporary desert tortoise exclusion fencing or monitoring will be used to protect desert tortoises during construction. fencing or monitoring will be used to protect desert tortoises and temporarily installed along the utility corridors. The proposed alignments for the permanent perimeter fence and utility rights-of-way fencing shall be flagged and surveyed within 24 hours prior to the initiation of fence construction.

<u>Verification</u>: All mitigation measures and their implementation methods shall be included in the BRMIMP and implemented. Implementation of the measures shall be reported in the Monthly Compliance Reports by the Designated Biologist. Within 30 days after completion of desert tortoise clearance surveys the Designated Biologist shall submit a report to the CPM, USFWS, and CDFG describing implementation of each of the mitigation measures listed above. The report shall include the desert tortoise survey results, capture and release

locations of any translocated desert tortoises, and any other information needed to demonstrate compliance with the measures described above.

113. Page 67, BIO-9:

Between sub-parts 4 and 5 there is a number "1" that should be deleted

114. Page 68, BIO-11:

Desert Tortoise Compliance

BIO-11

The Project owner shall provide Energy Commission, BLM, USFWS and CDFG staff with reasonable access to the Project site and compensation lands under the control of the Project owner and shall otherwise fully cooperate with the Energy Commission's efforts to verify the Project owner's compliance with, or the effectiveness of, mitigation measures set forth in the conditions of certification. The Project owner shall hold the Designated Biologist and the Energy Commission harmless for any costs the Project owner incurs in complying with the management measures, including stop work orders issued by the CPM or the Designated Biologist. The Designated Biologist shall do all of the following: #4 Notification of Injured or Dead Listed Species. If an injured or dead listed species is detected within or near the Project Disturbance Area the CPM, the Ontario Office of CDFG, and the Carlsbad Office of USFWS shall be notified immediately by phone. Notification shall occur no later than noon on the business day following the event if it occurs outside normal business hours so that the agencies can determine if further actions are required to protect listed species. Written follow-up notification via FAX or electronic communication shall be submitted to these agencies within two calendar days of the incident and shall include the following information as relevant:

<u>Verification</u>: No later than 45 days after initiation of Project operation the Designated Biologist shall provide the CPM a Final Listed Species Mitigation Report that includes, at a minimum: 1) a copy of the table in the BRMIMP with notes showing when each of the mitigation measures was implemented; 2) all available information about Project-related incidental take of listed species; 3) information about other Project impacts on the listed species; 4) construction dates; 5) an assessment of the effectiveness of conditions of certification in minimizing and compensating for Project impacts; 6) recommendations on how mitigation measures might be changed to more effectively minimize and mitigate the impacts of future Projects on the listed species; and 7) any other pertinent information, including the level of take of the listed species associated with the Project. Beginning with the first month after clearing, grubbing, and grading are

completed and continuing every month until construction is complete, the Project owner shall submit a report describing their results of the Monthly Compliance Inspections to the CPM, BLM, USFWS, and CDFG.

115. Page 70 – 79, BIO-12:

BIO-12 To fully mitigate for habitat loss and potential take of desert tortoise, the Project owner shall provide compensatory mitigation at a 1:1 ratio for impacts to 1750 1749 acres, and at a 5:1 ratio for impacts to 2423 acres of critical habitat,... adjusted to reflect the final Project footprint. For purposes of this condition, the Project footprint means all lands disturbed in the construction and operation of the Genesis Project, including all linears, as well as undeveloped areas inside the Project's boundaries that will no longer provide viable long-term habitat for the desert tortoise. To satisfy this condition, the Project owner shall acquire, protect and transfer no fewer than 1,864 acres of desert tortoise habitat lands (adjusted to reflect the final Project footprint), and shall also provide funding for the initial improvement and long-term maintenance and management of the acquired lands, and comply with other related requirements in this condition. Costs of these requirements are estimated to be \$4,263,6004,249,920 based on the acquisition of 1870 1,864 acres and estimated per-acre costs of \$500 for acquisition, \$330 for initial habitat improvement, and \$1,450 for long-term management. The actual costs to comply with this condition will vary depending on the final footprint of the Project, the actual costs of acquiring compensation habitat, the costs of initially improving the habitat, and the actual costs of long-term management as determined by a PAR report. The 1870 1,864acre habitat requirement, and associated funding requirements based on that acreage, will be adjusted up or down if there are changes in the final footprint of the Project.

116. Page 74, first paragraph:

.... If compensation lands will not be identified and a PAR or PAR-like analysis completed within the time period specified for this payment (see the verification section at the end of this condition), the Project owner shall either provide initial payment of $\frac{2,711,500}{2,702,800}$ (calculated at \$1,450 an acre for $\frac{1870}{1,864}$ acres) or the Project owner shall include $\frac{2,711,500}{2,702,800}$ to reflect this amount in the security that is provided

117. Page 76, mid-page:

Security shall be provided in the amount of \$4,263,6004,249,920, calculated as follows but adjusted as specified below:

- 4. i. land acquisition costs for compensation land, calculated at \$500/acre = \$935,000932,000.
- ii. initial protection and habitat improvement activities on the compensation land, calculated at \$330/acre = \$617,000615,120.
- 5. iii. long-term maintenance and management on the compensation land calculated at \$1,450/acre = \$2,711,5002,702,800.

118. Page 79, BIO-13 Raven Management Plan, last paragraph of Verification:

RAVEN MANAGEMENT PLAN

BIO-13

<u>Verification</u>: No less than 30 days prior to any construction-related ground disturbance activities, the Project owner shall provide the CPM, USFWS, and CDFG with the final version of a Raven Plan. All modifications to the approved Raven Plan shall be made only with approval of the CPM in consultation with USFWS and CDFG.

Within 30 days after completion of Project construction, the Project owner shall provide to the CPM for review and approval, a written report identifying which items of the Raven Plan have been completed, a summary of all modifications to mitigation measures made during the Project's construction phase, and which items are still outstanding.

On January 31st of each year following construction the Designated Biologist shall provide a report to the CPM that includes: a summary of the results of raven management and control activities for the year; a discussion of whether raven control and management goals for the year were met; and recommendations for raven management activities for the upcoming year.

No less than 10 days prior to the start of any Project-related ground disturbance activities, the Project owner shall provide documentation to the CPM. BLM, CDFG and USFWS that the one-time fee for the USFWS Regional Raven Management Program of has been deposited to the REAT-NFWS subaccount for the Project. The amount shall be a one-time payment of \$105 per acre of permanent disturbance of 1754 acres.

119. Page 80, BIO-14:

(Preceding this condition designation is a number "9" that should be deleted. And, several paragraphs were omitted from the text of the condition per Staff's Exhibit 400, which was only slightly modified by Exhibit 435.)

WEED MANAGEMENT PLAN

9.BIO-14 The Project owner shall implement a Weed Management Plan that meets the approval of the CPM. The objective of the Weed Management Plan shall be to prevent the introduction of any new weeds and the spread of existing weeds as a result of Project construction, operation, and decommissioning. The draft Weed Management Plan submitted by the Applicant (TTEC 2009g) shall provide the basis for the final plan, subject to review and revisions from the CPM. The Final Weed Management Plan shall include at a minimum the following information: specific weed management objectives and measures for each target non-native weed species; baseline conditions; a map of the Weed Management Areas; weed risk assessment and measures to prevent the introduction and spread of weeds; monitoring and surveying methods; and reporting requirements.

To ensure that weed management does not have unintended adverse effects on special-status species, the final Weed Management Plan shall be revised to be consistent with guidelines for safe use of herbicides in natural areas provided by The Nature Conservancy's The Global Invasive Species Team: http://www.invasive.org/gist/products/library/herbsafe.pdf.

The final Plan shall include detailed specifications for avoiding herbicide and soil stabilizer drift, and shall include a list of herbicides and soil stabilizers that will be used on the Project with manufacturer's guidance on appropriate use. The Plan shall Indicate where the herbicides will be used, and what techniques will be used to avoid chemical drift or residual toxicity to special-status species and their pollinators, and consistent with the Nature Conservancy guidelines and the criteria under #2, below.

The final plan shall only include weed control measures....

120. Page 81-82, BIO-15

PRE-CONSTRUCTION NEST SURVEYS AND AVOIDANCE MEASURES

BIO-15 Pre-construction nest surveys for bird species other than burrowing owls shall be conducted if construction activities would occur at any time during the period of February 1 through July 31. Burrowing owl nest surveys are addressed in BIO-18. The Designated Biologist or Biological Monitor conducting the surveys shall be experienced bird surveyors familiar with standard nest-locating techniques such as those described in Martin and

Guepel (1993). The goal of the nesting surveys shall be to identify the general location of the nest sites, sufficient to establish a protective buffer zone around the potential nest site, and need not include identification of the precise nest locations. Surveyors performing nest surveys shall not concurrently be conducting desert tortoise surveys. The bird surveyors shall perform surveys in accordance with the following guidelines:

- 1. <u>Surveys shall cover all potential nesting habitat in the Project site or</u> within 500 feet of the boundaries of the site (including linear facilities);
- At least two pre-construction surveys shall be conducted, separated by a minimum 10-day interval. One of the surveys shall be conducted within the 7-day period preceding initiation of construction activity. Additional follow-up surveys may be required if periods of construction inactivity exceed three weeks, an interval during which birds may establish a nesting territory and initiate egg laying and incubation;
- 3. If active nests are detected during the survey, a buffer zone and monitoring plan shall be developed. The size of the buffer zone shall be developed in consultation with CDFG and shall be determined based on the species specific alert distance and flush initiation distance¹. Nest locations shall be mapped and submitted, along with a report stating the survey results, to the CPM; and
- 4. The Designated Biologist or Biological Monitor shall monitor the nest until he or she determines that nestlings have fledged and dispersed; activities that might, in the opinion of the Designated Biologist, disturb nesting activities, shall be prohibited within the buffer zone until such a determination is made.

<u>Verification:</u> Prior to the start of any Project-related ground disturbance activities, the Project owner shall provide the CPM a letter-report describing the findings of the pre-construction nest surveys, including the time, date, and duration of the survey; identity and qualifications of the surveyor (s); and a list of species observed. If active nests are detected during the survey, the report shall include a map or aerial photo identifying the location of the nest and shall depict the boundaries of the no-disturbance buffer zone around the nest(s) that would be avoided during project construction.

No later than January 31st of every year following construction a follow-up report shall be provided to the CPM, CDFG, and USFWS describing the success of the buffer zones in preventing disturbance to nesting activity and a brief description

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¹ Alert distance refers to the distance between an animal and an activity when the animal becomes visibly alert (as evidenced by cessation of feeding and scrutiny of activity). Flush initiation distance, also called flight distance, refers to the distance between the animal and an activity when the animal takes flight (Taylor and Knight 2003).

of the outcome of the nesting effort (for example, whether young were successfully fledged from the nest or if the nest failed).

121. Page 82, BIO-16:

Avian Protection Plan

BIO-16The Project owner shall prepare and implement an Avian Protection Plan to monitor the death and injury of birds from collisions with facility features such as transmission lines, reflective mirror-like surfaces and from heat, and bright light from concentrating sunlight. The Project owner shall use the monitoring data to inform and develop an adaptive management program that would avoid and minimize Project-related avian impacts. Project-related bird deaths or injuries shall be reported to the CPM, CDFG, and USFWS. The CPM, in consultation with CDFG and USFWS, shall determine if the Project-related bird deaths or injuries warrant implementation of adaptive management measures contained in the Avian Protection Plan. The study design for the Avian Protection Plan shall be approved by the CPM in consultation with CDFG and USFWS, and, once approved, shall be incorporated into the project's BRMIMP and implemented.

122. Page 82, BIO-17

AMERICAN BADGER AND DESERT KIT FOX IMPACT AVOIDANCE AND MINIMIZATION MEASURES

BIO-17To avoid direct impacts to American badgers and desert kit fox, preconstruction surveys shall be conducted for these species concurrent with the desert tortoise surveys. Surveys shall be conducted as described below:

Biological Monitors shall perform pre-construction surveys for badger and kit fox dens in the Project area, including areas within 90 feet of all Project facilities, utility corridors, and access roads. Surveys may be concurrent with desert tortoise surveys. If dens are detected each den shall be classified as inactive, potentially active, or definitely active.

Inactive dens that would be directly impacted by construction activities shall be excavated by hand and backfilled to prevent reuse by badgers or kit fox. Potentially and definitely active dens that would be directly impacted by construction activities shall be monitored by the Biological Monitor for three consecutive nights using a tracking medium (such as diatomaceous earth or fire clay) and/or infrared camera stations at the entrance. If no tracks are observed in the tracking medium or no photos of the target species are captured after three nights, the den shall be

excavated and backfilled by hand. If tracks are observed, and especially if high or low ambient temperatures could potentially result in harm to kit fox or badger from burrow exclusion, various passive hazing methods may be used to discourage occupants from continued use.

123. Page 83, BIO-18:

Burrowing Owl Impact Avoidance, Minimization, AND COMPENSATION and Compensation Measures

BIO-18 The Project owner shall implement the following measures to avoid, minimize and offset impacts to burrowing owls:

#3 Passive Relocation of Burrowing Owls. If pre-construction surveys indicate the presence of burrowing owls within the Project Disturbance Area (the Project Disturbance Area means all lands disturbed in the construction and operation of the Genesis Project), the Project owner shall prepare and implement a Burrowing Owl Relocation and Mitigation Plan, in addition to the avoidance measures described above.

- i. maintaining the functionality of the burrows for two years
- a. <u>Criteria for Burrowing Owl Mitigation Lands.</u> The terms and conditions of this acquisition or easement shall be as described in Paragraph 1 of BIO-12 [Desert Tortoise Compensatory Mitigation], with the additional criteria to include: 1) the 39 acres of mitigation land must provide suitable habitat for burrowing owls, and 2) the acquisition lands must either currently support burrowing owls or be within dispersal distance from <u>areas occupied by burrowing owls an active burrowing owl nesting territory</u> (generally approximately 5 miles).
- b. Security. The Security measures described below is based on the assumption that two owls would be impacted by construction of the Project, and would therefore require 39 acres of compensatory mitigation land. If the 39 acres of burrowing owl mitigation land is separate from the acreage required for desert tortoise compensation lands the Project owner or an approved third party shall complete acquisition of the proposed compensation lands prior to initiating ground-disturbing Project activities. Alternatively, financial assurance can be provided by the Project owner to the CPM with copies of the document(s) to CDFG, BLM and the USFWS, to guarantee that an adequate level of funding is available to implement the mitigation measure described in this condition. These funds shall be used solely for implementation of the measures associated with the Project. Financial assurance can be provided to the CPM in the form of an irrevocable letter of credit, a pledged savings account or another form of security ("Security")

prior to initiating ground-disturbing Project activities. Prior to submittal to the CPM, the Security shall be approved by the CPM, in consultation with CDFG, BLM and the USFWS to ensure funding. As of the publication of the RSA, this amount is \$120,432\$44,460 but this amount may change based on land costs or the estimated costs of enhancement and endowment (see subsection C.2.4.2, Desert Tortoise, for a discussion of the assumptions used in calculating the Security, which are based on the most current guidance from the REAT agencies (Desert Renewable Energy REAT Biological Resource Compensation/Mitigation Cost Estimate Breakdown for use with the REAT-NFWF Mitigation Account, July 23, 2010) This estimate may be revised with updated information from the REAT agencies, an estimate of \$2,280 per acre to fund acquisition, enhancement, and long-term management). The final amount due will be determined by the PAR analysis conducted pursuant to BIO-12.

124. Page 87, BIO-19:

SPECIAL-STATUS PLANT IMPACT AVOIDANCE, MINIMIZATION AND COMPENSATION

BIO-19 The Project owner shall comply with other related requirements in this condition:

Page 98: Initial Protection and Habitat Improvement. The Project owner shall fund activities that the CPM requires for the initial protection and habitat improvement of the compensation lands. These activities will vary depending on the condition and location of the land acquired, but may include trash removal, construction and repair of fences, invasive plant removal, and similar measures to protect habitat and improve habitat quality on the compensation lands. The costs of these activities are estimated based on the most current guidance from the REAT agencies (Desert Renewable Energy REAT Biological Resource Compensation/Mitigation Cost Estimate Breakdown for use with the REAT-NFWF Mitigation Account, July 23, 2010) This estimate may be revised with updated information from the REAT agencies. to be \$330 per acre. The cost estimate shall use using the estimated cost per acre for Desert Tortoise mitigation as a best available proxy, at the ratio of 3:1 for Rank 1 plants and 2:1 for Rank 2 plants, but actual costs will vary depending on the measures that are required for the compensation lands. A non-profit organization, CDFG or another public agency may hold and expend the habitat improvement funds if it is qualified to manage the compensation lands (pursuant to California Government Code section 65965), if it meets the approval of the CPM in consultation with CDFG, and if it is authorized to participate in implementing the required activities on the compensation lands. If

CDFG takes fee title to the compensation lands, the habitat improvement fund must be paid to CDFG or its designee.

125. Page 92, BIO-19:

sub-section 5, second paragraph number "10" should be deleted.

126. Page 95, BIO-19:

Section D, first paragraph number "11" should be deleted.

127. Page 96, BIO-19:

first three paragraphs numbering "12 – 14" should be deleted.

128. Page 99, BIO-19:

third paragraph, number "15" should be deleted.

129. Page 100, BIO-19 (Mitigation Security):

The Project owner shall provide financial assurances to the CPM to guarantee that an adequate level of funding is available to implement any of the mitigation measures required by this condition that are not completed prior to the start of ground-disturbing Project activities. Financial assurances shall be provided to the CPM in the form of an irrevocable letter of credit, a pledged savings account or another form of security ("Security") approved by the CPM. The amount of the Security shall be based on the most current guidance from the REAT agencies (Desert Renewable Energy REAT Biological Resource Compensation/Mitigation Cost Estimate Breakdown for use with the REAT-NFWF Mitigation Account, July 23, 2010) This estimate may be revised with updated information from the REAT agencies. The cost estimate shall use \$2,280 per acre, using the estimated cost per acre for Desert Tortoise mitigation as a best available proxy, at a ratio of 3:1 for Rank 1 plants and 2:1 for Rank 2 plants, for every acre of habitat supporting the target special-status plant species which is significantly impacted by the project. The actual costs to comply with this condition will vary depending on the actual costs of acquiring compensation habitat, the costs of initially improving the habitat, and the actual costs of long-term management as determined by a PAR report.

130. Page 102, #18:

If the Project owner elects to undertake a habitat enhancement project for mitigation, they shall submit a Habitat Enhancement/Restoration Plan to the CPM for review and approval, and shall provide sufficient funding for implementation and monitoring of the Plan. The amount of the Security shall

be based on the most current guidance from the REAT agencies (Desert Renewable Energy REAT Biological Resource Compensation/Mitigation Cost Estimate Breakdown for use with the REAT-NFWF Mitigation Account, July 23, 2010) This estimate may be revised with updated information from the REAT agencies. The cost estimate shall use \$2,280 per acre, using the estimated cost per acre for Desert Tortoise mitigation as a best available proxy, at the ratio of 3:1 for Rank 1 plants and 2:1 for Rank 2 plants, for every acre of habitat supporting the target special-status plant species which is directly or indirectly impacted by the project. The amount of the security may be adjusted based on the actual costs of implementing the enhancement, restoration and monitoring.

131. Pages 101-102, BIO-19:

numbers "16 - 19" should be deleted.

132. Page 102, #19:

If the Project owner elects to undertake a habitat enhancement project for mitigation, they shall submit a Habitat Enhancement/Restoration Plan to the CPM for review and approval, and shall provide sufficient funding for implementation and monitoring of the Plan. The amount of the Security shall be <u>based on the most current guidance from the REAT agencies (Desert Renewable Energy REAT Biological Resource Compensation/Mitigation Cost Estimate Breakdown for use with the REAT-NFWF Mitigation Account, July 23, 2010) This estimate may be revised with updated information from the REAT agencies. The cost estimate shall use \$2,280 per acre, using the estimated cost per acre for Desert Tortoise mitigation as a best available proxy, at the ratio of 3:1 for Rank 1 plants and 2:1 for Rank 2 plants, for every acre of habitat supporting the target special-status plant species which is directly or indirectly impacted by the project. The amount of the security may be adjusted based on the actual costs of implementing the enhancement, restoration and monitoring.</u>

133. Page 105, BIO-19:

last paragraph before Verification, number "20" should be deleted.

134. Pages 108 – 109, BIO-20

SAND DUNES/Mojave fringe-toed lizard mitigation

NOTE: In the Supplemental Revised Staff Assessment (RSA) published on July 2, 2010 staff revised the mitigation obligation in **BIO-20** to reflect increased direct impacts to sand dune habitat as described in the Applicant's June 18, 2010 submittal (*Tetra Tech/T. Bernhardt [tn:57263] Supplemental Information for the GSEP, June 18 2010. 42 p*). The document discussed the impacts of a newly-

proposed six-pole transmission line extension to tie into the proposed Colorado River Substation and other minor changes to the Project. Table 2 summarizes the basis for the sand dune mitigation requirement described in the Supplemental RSA.

Table 2. Direct and Indirect Impacts to Mojave Fringe-toed Lizard Habitat

and Recommended Mitigation (from the Supplemental RSA)

Resource	Acres Impacted	Ratio	Recommended Mitigation Acreage
Stabilized/Partially Stabilized Sand			
Dunes - Direct Impacts			
Direct Impacts	7.5	3:1	22
Playa and Sand Drifts Over Playa			
Direct Impacts	-38	3:1	-114
Indirect Impacts to MFTL Habitat	151	0.5:1	76
Total Mojave Fringe-toed Lizard Mitigation			212

The changes below are revised from the text for BIO-20 that was in the Supplemental RSA, and reflect subtraction of the 76 acres of mitigation for indirect impacts to Mojave fringe-toed lizard habitat.

- **BIO-20** The Project owner shall mitigate for direct and indirect impacts to stabilized and partially stabilized sand dunes and other Mojave fringe-toed lizard habitat by acquisition of 136 acres of Mojave fringe-toed lizard habitat. The Project owner shall provide funding for the acquisition, initial habitat improvements and long-term management of the compensation lands. The 136 -acre acquisition requirement, and associated funding requirements based on that acreage will be adjusted if there are changes in the final footprint of the Project. In lieu of acquiring lands itself, the Project owner may satisfy the requirements of this condition by depositing funds into the Renewable Energy Action Team (REAT) Account established with the National Fish and Wildlife Foundation (NFWF), as described in Section 3.i. of Condition of Certification BIO-12. Condition of Certification BIO-29 may provide the Project owner with another option for satisfying some or all of the requirements in this condition.
- 2. Security for Implementation of Mitigation: The Project owner shall provide financial assurances to the CPM to guarantee that an adequate level of funding is available to implement the acquisitions and enhancement of Mojave fringe-toed lizard habitat as described in this condition. These funds shall be used solely for implementation of the measures associated with the Project. Financial assurance can be provided to the CPM in the form of an irrevocable letter of credit, a

pledged savings account or Security prior to initiating ground-disturbing project activities. The Security shall be approved by the CPM, in consultation with CDFG and the USFWS, to ensure sufficient funding. The amount is \$422,668 based on the most current guidance from the REAT agencies (Desert Renewable Energy REAT Biological Resource Compensation/Mitigation Cost Estimate Breakdown for use with the REAT-NFWF Mitigation Account, July 23, 2010). This amount may change based on land costs or the estimated costs of enhancement and endowment (see subsection C.2.4.2, Desert Tortoise, for a discussion of the assumptions used in calculating the Security, which are based on an estimate of \$1,450 per acre to fund acquisition, enhancement and long-term management).

3 Preparation of Management Plan: The Project owner shall submit to the CPM, CDFG and USFWS a draft Management Plan that that reflects site-specific enhancement measures for the Mojave fringe-toed lizard habitat on the acquired compensation lands. The objective of the Management Plan shall be to enhance the value of the compensation lands for Mojave fringe-toed lizards, and may include enhancement actions such as weed control, fencing to exclude livestock, erosion control, or protection of sand sources or sand transport corridors.

135. Page 112, BIO-22:

MITIGATION FOR IMPACTS TO STATE WATERS

- BIO-22 The Project owner shall implement the following measures to avoid, minimize and mitigate for direct and indirect impacts to waters of the state and to satisfy requirements of California Fish and Game Code sections 1600 and 1607.
 - 1. Acquire Off-Site State Waters: The Project owner shall acquire, in fee or in easement, a parcel or parcels of land that includes at least 111 132 acres of state jurisdictional waters, or the area of state waters directly or indirectly impacted by the final Project footprint. The Project footprint means all lands disturbed by construction and operation of the Genesis Project, including all Project linears. The parcel or parcels comprising the 111 132 acres of ephemeral washes shall include at least 48 acres of microphyll woodland. If the Reduced Acreage Alternative were constructed the mitigation requirements for impacts to state waters would be a minimum of 109 acres that included at least 48 acres of microphyll woodland. The terms and conditions of this acquisition or easement shall be as described in Condition of Certification BIO-12, #2 and #3. Mitigation for impacts to state waters shall occur within the Chuckwalla-Ford Dry Lake or surrounding watersheds, as close to the Project site as possible. The 111 132-acre acquisition of state

waters may be integrated with the desert tortoise mitigation acquisition if the criteria described in this condition are met.

- 2. Security for Implementation of Mitigation: The Project owner shall provide financial assurances to the CPM and CDFG to guarantee that an adequate level of funding is available to implement the acquisitions and enhancement of state waters as described in this condition. These funds shall be used solely for implementation of the measures associated with the project. Financial assurance can be provided to the CPM and CDFG in the form of an irrevocable letter of credit, a pledged savings account or Security prior to initiating construction-related ground disturbing activities. Prior to submittal to the CPM, the Security shall be approved by the CPM, in consultation with CDFG and the USFWS, to ensure sufficient funding. As of the publication of the RSA, The this amount is \$300,960 \$342,768 based on the most current guidance from the REAT agencies (Desert Renewable Energy REAT Biological Resource Compensation/Mitigation Cost Estimate Breakdown for use with the REAT-NFWF Mitigation Account, July 23, 2010) This estimate may be revised with updated information from the REAT agencies. These amounts may change based on changes in land costs or the estimated costs of enhancement and endowment (see subsection C.2.4.2, Desert Tortoise, for a discussion of the assumptions used in calculating the Security, which are based on an estimate of \$2,280 per acre to fund acquisition, enhancement and long-term management). The final amount due shall be determined by an updated appraisals and the PAR analysis conducted as described in BIO-12.
- 136. Page 119, BIO-25: Delete Condition BIO-25.

137. Page 119, BIO-26

BIO-26

REMEDIAL ACTION FOR ADVERSE EFFECTS TO GROUNDWATER-DEPENDENT BIOLOGICAL RESOURCES

<u>Deleted</u>. The Project owner shall implement remedial action if the monitoring described in <u>BIO-25</u> detects project-related declining spring water tables—in any amount greater than the normal year-to-year variability—combined with a decline in plant vigor in groundwater dependent vegetation at the Project Monitoring Sites compared to the Reference Monitoring Sites. The baseline spring water table depth, as measured in groundwater monitoring conducted pursuant to <u>Soil & Water-4 and 5</u>, shall be established based on the normal range of variability in area_shallow water tables in spring (March 15-April 1). The Project owner shall submit a detailed proposal for remedial action to be approved by the CPM.

Remedial measures must include one of the following measures to meet the performance standard of restoring the spring groundwater tables to baseline levels: 1) Relocating the Project pumping well to another location farther from the groundwater-dependent vegetation (and where the dependent vegetation is no longer within the drawdown cone of depression), or—alternatively—constructing a new well farther away and reducing water usage in the well closest to the dependent plant communities; 2) Reducing the Project water usage through water conservation methods or new technologies.

The proposal shall clearly demonstrate that the proposed remedial action would restore the spring groundwater tables to baseline levels to sustain healthy ecological functioning in the affected plant communities. The Project owner may choose the most feasible method of restoring baseline spring water table levels providing it meets this performance standard.

The Project owner must implement remedial action, as approved by the CPM.

<u>Verification:</u> Within 90 days following submission of the data summary described in BIO-25 that triggers remedial action according to the threshold described in BIO-25, the Project owner shall submit to the CPM a draft, or conceptual plan for remedial action. The draft plan shall summarize the data and observations describing the adverse effect, including all calculations and assumptions made in development of the report data and interpretations. The draft plan must include, but not limited to, one of the remedial measures described above to meet the performance standard of restoring the spring groundwater table to baseline levels. A final plan shall be submitted to the CPM within 60 days of receipt of the CPM's comments.

No later than one year following approval of the remedial action plan, the Project owner shall provide to the CPM for review and approval, documentation of completed remedial action.

If, after review of the annual monitoring data described in BIO-25 and in Soil & Water-5, the CPM agrees, monitoring measurements and frequencies may be revised or eliminated.

138. Page 123, BIO-29:

BIO-29 The Project owner may choose to satisfy its mitigation obligations identified in this Decision by paying an in lieu fee instead of acquiring compensation lands, pursuant to Fish and Game code sections 2069 and 2099 or any other applicable in-lieu fee provision, to the extent provided that the Project's the in-lieu fee provision proposal is found by the Commission to be in compliance with CEQA and CESA requirements. If the in-lieu fee proposal is found by the Commission to be in compliance, and the Project Owner chooses to satisfy its

mitigation obligations through the in-lieu fee, the Project Owner shall provide proof of the in-lieu fee payment to the CPM prior to construction related ground disturbance.

<u>Verification</u>: If electing to use this provision, the Project owner shall notify the Commission <u>and all parties to the proceeding</u> that it would like a determination that the Project's in-lieu fee proposal meets CEQA and CESA requirements. <u>Prior to construction related ground disturbance the Project Owner shall provide proof of the in lieu fee payment to the CPM.</u> <u>If the Project owner elects to use this provision after posting such Security, the Project owner shall provide proof of the in lieu fee payment prior to the time required for habitat compensation lands to be surrendered in accordance with the Conditions of Certification.</u>

SOIL AND WATER RESOURCES

139. Page 1:

This section addresses the soil and water resources associated with the Genesis Solar Power Energy Project (GSEP), including the Project's potential to induce erosion and sedimentation, modify drainage and flooding conditions, adversely affect groundwater supplies, and degrade water quality.

140. Page 5, last paragraph:

After reviewing the record, we are convinced that the mitigation measures which include proven Best Management Practices are designed to abate windborne dust and that the measures are adequate and effective.

141. Page 6, paragraph 2:

For potential soil loss associated with water erosion, it was assumed <u>that 100</u> percent of the project site would be graded.

142. Page 10, paragraph 3:

The described potential impacts to groundwater basin balance would be addressed through Condition of Certification SOIL & WATER-15. Specifically, this Condition requires the project owner to implement a Water Supply Plan to mitigate project impacts to the PVMGB Colorado River flows, including efforts such as zero liquid discharge (ZLD) wastewater systems, funding of irrigation improvements, purchasing water rights, and/or tamarisk removal. (Ex. 400, pp. C.9-46 to C.9-49.) Condition of Certification SOIL & WATER-19 refines the quantity of water depleted from the PVMGB associated with project groundwater extraction (i.e., to estimate the amount of water that must be replaced pursuant to Condition of Certification SOIL & WATER-15). (Ex. 400, p. C.9-49.) With the

implementation of these Conditions, we find that the GSEP will have a less than significant impact on the <u>PVMGB</u>.

143. Page 12, line 1:

"More to the point In fact, contrary evidence in the record was presented by the Applicant indicating that the GSEP's use of groundwater, even under the overestimate of wet cooling scenari, o would not result in the static groundwater level dropping below the "theoretical Accounting Surface". (Ex. 62, p. 19). No other evidence was presented regarding the Colorado River Accounting Surface. there is nothing in the record that actually applies the methodology to the quantity of groundwater that GSEP will use or that the GSEP "would cause the static groundwater table to drop below the theoretical accounting surface" as argued by applicant, supra. CURE simply has not provided sufficient evidence to convince us to make a finding that the groundwater pumped at the GSEP site in the Chuckwalla Valley Groundwater Basin is water drawn from the mainstream of the Colorado River [Tit. 20, Cal. Code of Regs. § 1748(e)]. Therefore, there is no Given the scant record before us regarding this issue, we simply do not have enough evidence that would legally justify to impose a condition requiring the GSEP to obtain a Colorado River entitlement."

144. Page 15, Evaporation Ponds, highlighted text

Each of the proposed 125 MW units will have one, approximately <u>5</u>+2-acre, evaporation pond to dispose of wastewater from sources including reverse osmosis (RO) reject water and the air-cooled condenser (ACC), with a total pond area of <u>approximately 10</u>24 acres for the entire project site

145. Page 25, paragraph 2:

A DESCP would be required (see Conditions of Certification SOIL&WATER-1) prior to onsite operations and will reduce the potential for increased sediment loads to less than significant. (PMPD p. 25) Implementation of Condition of Certification SOIL&WATER-1 and SOIL&WATER-13 and HAZ-1 and HAZ-2 (described in detail in the Hazardous Materials Management of this Decision), will reduce impacts to surface water quality to below the level of significance associated with construction and operation of the Project.

146. Page 26, line 1:

Construction and operation of the proposed project will result in both temporary and permanent changes at the project site. A number of past, present and future foreseeable projects (cumulative projects) were identified for the assessment of potential cumulative impacts, including the proposed GSEP Project. A summary of potential cumulative impacts to soil and water resources from past, present and future foreseeable projects is provided below.

These projects are defined within a geographic area that has been identified by the Energy Commission and BLM as covering an area large enough to provide a reasonable basis for evaluating cumulative impacts for all resource elements or environmental parameters (Staff Assessment C.9-68) The evidence indicates that the following projects were considered in the cumulative analysis relating to Soil and Water Resources: Chuckwalla Solar I, Eagle Mountain Soleil, Desert Lily Soleil, Desert Sunlight Solar Farm, Eagle Mountain Pump Storage, Mule Mountain Solar Project, Mule Mountain Soleil, Palen Solar Power. (Staff Assessment Exhibit 400 Table 20 p. C.9-70)

147. Page 26, Soil Erosion:

The proposed project will be expected to contribute only a small amount to these possible long term operational cumulative impacts because potential Project-related soil erosion and increased sedimentation resulting from storm water runoff are expected to be reduced to a level of insignificance through implementation of the Conditions of Certification SOIL&WATER-1, -2, -8, -9, -10, -11 and -13.

148. Page 28, paragraph two:

In addition, the evidence shows that the cumulative impact analysis conducted by the project suggested that during the course of operations for all reasonably foreseeable projects, the subsurface outflow from the CVGB into the PVMGB will decline from approximately 400 988 AFY to approximately 348 936 AFY in 2043. This could have an indirect impact on the Palo Verde Mesa Groundwater Basin by inducing reducing underflow from to the Colorado River to the Palo Verde Mesa Groundwater Basin. (Ex. 400, p. C.9-74.) Nevertheless, the impact related to outflow will be fully mitigated, such that the project will not contribute to cumulative impacts with implementation of SOIL&WATER-15 and SOIL&WATER-19.

149. Page 28, Groundwater Levels:

Based on uncertainties identified in the assessment of water level declines, related impacts cannot currently be accurately quantified and associated potential impacts to water levels in existing wells are considered cumulatively significant. Implementation of Conditions of Certification SOIL&WATER-23 through SOIL&WATER-5 is anticipated to reduce project-related impacts to groundwater levels below a level of significance. While mitigation for similar impacts from the cumulative projects cannot be determined at this time, it is considered likely that such impacts will be subject to similar measures as the GSEP. In any case, impacts to groundwater levels in the PVMGB-CVGB from the proposed project will not be cumulatively considerable, based on the noted Conditions of Certification.

150. Page 29, Surface Water Quality, line #4:

It is expected that all of the projects would be required to implement BMPs for managing potentially harmful storm water and protect water quality. Implementation of the Conditions of Certification SOIL&WATER-1, -2, -8, -9, -10, -11 and -13 will reduce the project specific impacts below the level of significance.

151. Page 29, last paragraph, line 4:

The proposed project is expected to contribute only a small amount to the possible short-term cumulative impacts related to surface water quality with implementation of the Conditions of Certification **SOIL&WATER-1**, -2, -8, -9, -10, -11 and -13 and will reduce the project specific impacts below the level of significance.

152. Under Public Comments page 31:

There were no public comments on soil and water resources. CURE submitted "comments" which were essentially identical to the arguments made in their briefs. The Decision addresses CURE's arguments, above.

153. Page 31, paragraph 1, line 9:

Water demand is described, and was thoroughly debated regarding the use of wet-cooling versus dry-cooling technology. (Ex. 402, p. C.9-7.) Lastly, Conditions **SOIL&WATER-2**, -4 -15 and -19 fully mitigate the GSEP's water demands and impacts, including any latent impacts after the project's closure.

154. Page 31, Finding of Fact #4:

Adherence to the procedures in the Condition of Certification **SOIL&WATER-1** (including the construction DESCP) and related CWA/NPDES permit requirements will avoid significant soil erosion and subsequent sedimentation during construction, conserve soil resources, maintain water quality, and prevent accelerated soil loss.

155. Page 32, Finding of Fact #10:

The project could potentially impact local groundwater levels, potentially including effects related to local wells, springs, phreatophyte vegetation, or subsidence.

156. Page 32, Finding of Fact #14:

Implementation of Conditions of Certification SOIL&WATER-3-6, through SOIL&WATER-7, SOIL&WATER-12, and SOIL&WATER-20 will reduce long-term impacts related to groundwater quality below a level of significance.

157. Page 34, Finding of Fact #28:

Implementation of Condition of Certification SOIL&WATER-1, <u>SOIL&WATER-6</u>, and SOIL&WATER-13 and HAZ-1 and HAZ-2 (described in detail in the HAZARDOUS MATERIALS MANAGEMENT of this Decision), will reduce impacts to surface water quality to below the level of significance associated with construction and operation of the Project.

158. Page 37, Heading above Soil & Water-2:

Add the word: **PLAN** to the heading: **GROUNDWATER LEVEL MONITORING, MITIGATION, AND REPORTING PLAN**

159. Page 48, SOIL&WATER-8, Verification:

"Verification: The Project owner shall submit a Revised Project Drainage Report with the 30 percent Grading and Drainage Plans to the CPM for their review and comments <u>a minimum of</u> sixty (60) days before project mobilization. The owner will"

160. Page 56, SOIL&WATER-15: preface to SOIL&WATER-15:

Delete the heading and remove the paragraph inserted above **SOIL&WATER-15** and reinsert the paragraph into the body of the analysis at page 10 before the last paragraph.

161. Page 56, SOIL&WATER-15:

The Project owner shall undertake one or more of the activities identified below to mitigate project impacts that result in depletion of the PVMGB groundwater budget. The amount of PVMGB depletion requiring mitigation shall be determined based on an analysis of the Project's effect on the PVMGB groundwater budget, including an estimate of the decrease in underflow from the CVGB to the PVMGB. The analysis shall be conducted as described in SOIL&WATER-19. to flows in the Colorado River. These activities shall result in replacement or 8,500 acre feet or (~202 acre-feet annually) for a dry cooling Project in the Colorado River Basin over the life of the project.

Additional measures of wWater conservation projects should that may be considered as mitigation include the following: in the following order of priority: Zero Liquid Discharge systems, increase cycles of concentration in the evaporative cooling process, hybrid cooling,: payment for irrigation improvements in Palo Verde Irrigation District (PVID), purchase of water allotments within the Colorado River Basin that will be held in reserve payment for conversion of cultivation of crops with lower crop water demand in the PVID, use of tertiary treated water, implementation of water conservation programs in the CVGB, PVMGB or Colorado River flood plain communities, and/or participation in BLM's Tamarisk Removal Program. If the Project owner has filed an application to the Colorado River Board or the Bureau of Reclamation to obtain an allocation of water from the Colorado River, these allocations can be used to satisfy some or all of the water offsets needed to comply with this condition on an acre foot per acre foot basis. Use of any other options will require tThe Project owner shall to demonstrate to the satisfaction of the CPM that the appropriate amounts of water will be conserved.

The activities proposed for mitigation will be outlined in a Water Supply Plan that will be provided to the CPM for review and approval. The Water Supply Plan shall include the following at a minimum:

- A. Identification of the activity and water source that will replace or 8,500 acre feet (~202 acre-feet annually) for a dry cooled Project diverted from the Colorado River over the life of the project the decreased underflow to the PVMGB determined under SOIL&WATER-19;
- B. Demonstration of the Project owner's legal entitlement to the water or ability to conduct the activity;
- C. Include a discussion of any needed governmental approval of the identified activities, including a discussion of whether that approval that requires;
- D. Discuss whether any governmental approval of the identified activities will be needed, and, if so, whether additional that approval will require compliance with CEQA or NEPA;
- E. Demonstration of how water diverted from the Colorado RiverPVMGB will be replaced for each of the activities;
- F. An estimated schedule for completion of the activities;
- G. Performance measures that would be used to evaluate the amount of water replaced by the activities; and
- H. Monitoring and Reporting Plan outlining the steps necessary and proposed frequency of reporting to show the activities are achieving the intended benefits and replacing Colorado River diversions; and.
- I. If the application for allocation from the Colorado River is accepted by the USBR, the Project owner shall submit to the CPM for their approval, a copy of a water allocation from the Colorado River

issued by the appropriate agency for the Projects diversion of Colorado River water.

The Project owner shall implement the activities reviewed and approved in the Water Supply Plan in accordance with the agreed upon schedule in the Water Supply Plan. If agreement on identification or implementation of mitigation activities cannot be achieved the Project owner shall immediately halt construction or operation until assurance that the agreed upon activities can be identified and implemented.

The Project owner can choose to refine the estimate of the quantity of water attributed to flow from the Colorado River by implementing **SOIL&WATER-19**. If a lesser volume of water is determined to be diverted from the Colorado River as a result of project pumping pursuant to **SOIL&WATER-19**, that lesser volume shall be replaced in accordance with this Condition.

162. Page 60, SOIL&WATER-18: DELETE

163. Page 67, Appendix B, sub-section "2":

These WDRs regulate the Facility's six two evaporation ponds and the LTU. The evaporation ponds are designated as Class II Surface Impoundments Waste Management Units (WMU) and must meet the requirements of the California Code of Regulations (CCRs), Title 27, CCR §20200 et seq. The boundaries of the Genesis Solar Power Project are shown on Figure 2, as incorporated here in and made a part of these WDRs.

164. Page 69, #10:

The Discharger proposes to use a wet dry cooling tower for power plant cooling. Water for cooling tower makeup process water makeup, and other industrial uses such as mirror washing will be supplied from on-site groundwater wells, which also will be used to supply water for employee use (e.g., drinking, showers, sinks, and toilets). A package water treatment system will be used to treat the water to meet potable standards. A sanitary septic system and on-site leach field will be used to dispose of sanitary wastewater.

165. Page 69, #11:

Project cooling water blow down from each unit wastewater (excluding sanitary waste) will be piped to lined, on-site evaporation ponds, which are designated as Class II Surface Impoundments. There One evaporation ponds are is allocated to each unit power block for a total of six two evaporation ponds. For safety and operational purposes, accumulated precipitated solids will be removed from the base of the evaporation ponds when they reach a depth of 3 feet. It is estimated that 3 feet of solids will accumulate approximately every 7 20 years when using

groundwater containing 5,000 mg/l of total dissolved solids (TDS) as a water supply. Dewatered residues from the ponds will be sent to an appropriate off-site landfill for disposal. No off-site backup cooling water supply is planned at this time; the use of multiple on-site water supply wells and redundancy in the well equipment will provide an inherent backup in the event of outages affecting one of the on-site supply wells.

166. Page 78, #39:

The average total annual water usage for each 125 MW unit is estimated to be about 822 101 acre-feet per year (afpy), or 1644 202 afpy for the Project, which corresponds to an average daily flow rate of about 1000-125 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 each 125 MW power plant, or 4,026 gpm for The Project. Equipment sizing will be consistent with peak daily rates to ensure adequate design margin.

167. Page 78, #41:

The six two 5-acre evaporation ponds (one three per unit) have a proposed average design depth of 8 feet across each pond which incorporates:

168. SOIL AND WATER APPENDIX B:

These WDRs regulate the Facility's three evaporation ponds and the LTU. The evaporation ponds are designated as Class II Surface Impoundments Waste Management Units (WMU) (PMPD p.68)

Project cooling water blow down from each unit will be piped to lined, on-site evaporation ponds, which are designated as Class II Surface Impoundments. There evaporation ponds are allocated to each unit for a total of six evaporation ponds. For safety and operational purposes, accumulated precipitated solids will be removed from the base of the evaporation ponds when they reach a depth of 3 feet. It is estimated that 3 feet of solids will accumulate approximately every 7 years when using groundwater containing 5,000 mg/l of total dissolved solids (TDS) as a water supply. Dewatered residues from the ponds will be sent to an appropriate off-site landfill for disposal. No off-site backup cooling water supply is planned at this time; the use of multiple on-site water supply wells and redundancy in the well equipment will provide an inherent backup in the event of outages affecting one of the on-site supply wells. (PMPD p. 70)

...could be as high as about 2,013 gpm for each 125 MW power plant, or 4,026 gpm for The Project. Equipment sizing will be consistent with peak daily rates to ensure adequate design margin. (PMPD p. 79)

Evaporation Ponds (Design and Installation Sequence)

The six 8-acre evaporation ponds (three per unit) have a proposed average design depth of 8 feet across each pond which incorporates: (PMPD p. 79)

- a. 3 feet of sludge buildup;
- b. 3 feet of operational depth; and
- c. 2 feet of freeboard.

Based on an 8 acre pond, each evaporation pond would have an ALR of 2,200 gallons per day. (PMPD p. 81)

A large hole in the geomembrane may cause a rapid large leakage rate (RLLR) of approximately 9,500 gallons per acre per day. This would equate to a RLLR of 76,000 gallons per day per pend. The RLLR is provided herein for informational purposes only. (PMPD p. 82)

Wastewater from several processes within each 125MW Unit will be piped to three 8-acre evaporation pends (total combined pend top area of 24 acres) for disposal. Therefore there is a total of 48 acres (top pend area) of evaporation pends on the Project site. Discharge into the evaporation pends is derived from three primary and one occasional source:

- a. Pre-cooling tower water treatment multi media filter (MMF) waste stream:
- b. Post-cooling tower water treatment MMF waste stream;
- c. Post-cooling tower water treatment 2nd Stage revises osmosis (RO) waste stream; and
- d. Occasionally, stormwater accumulated in the proposed LTU that will be used to treat soil affected by spills of HTF.

Raw water and pre-treated water are used to supply various plant needs, including cooling tower circulating water, solar steam generator makeup water, and various plant service needs. All these water streams eventually discharge into the evaporation ponds. (PMPD p. 82)

Action Leakage Rate

The estimated ALR for the evaporation ponds is 2,750 gallons per acre per day. This is based on one standard hole per acre, a drainage layer geonet with hydraulic conductivity of 0.06 m/s and a 50 percent safety factor. The assumption underlying this ALR calculation will be verified in the actual constructed ponds. Based on a 8.5 acre pond, each evaporation pond would

have an <u>estimated</u> ALR of <u>2,200</u> <u>1,375</u> gallons per day. However, the ALR will need to have field verification as this rate will vary depending on actual drainage material used and its hydraulic conductivity. A final ALR will be submitted to the Regional Board within six months of the effective date of these WDRs based on field analysis. (PMPD p. 82)

A large hole in the geomembrane may cause a rapid large leakage rate (RLLR) of approximately 9,500 gallons per acre per day. This would equate to a RLLR of 76,000 47,500 gallons per day per pond. The RLLR is provided herein for informational purposes only. (PMPD p. 82)

Waste Classification

Wastewater from several processes within each 125MW Unit will be piped to three one 58-acre evaporation pond (total combined pond top area of 24 acres) for disposal. Therefore there is a total of 48 10 acres (top pond area) of evaporation ponds on the Project site. Discharge into the evaporation ponds is derived from three primary and one occasional source. (PMPD p. 82)

Wastewater Discharge

The combined estimated rate of wastewater discharge into the evaporation ponds is 214 gpm 19,000 gallons per day (gpd) for peak conditions and 182 gpm 12,000 gpd under annual average conditions. The peak flow rates occur in the summer months, between May and August, when solar energy production is at a peak. (PMPD p. 82)

The modeled water chemistry of the blowdown from the cooling tower after 15 COC indicates that chloride, sodium and sulfate will be the primary species, along with smaller concentrations of scale forming species (i.e., calcium, magnesium and silica) that were not removed during pre-treatment. Therefore post-treatment is needed to recover most of the wastewater for reuse to minimize the quantity of makeup water required, and to minimize the size of the waste management units (evaporation ponds). Post-treatment will consist of an MMF and Reverse Osmosis (RO) unit, where similar to the pre-treatment process, the MMF will remove solids from the cooling tower blowdown that may damage or reduce the efficiency of the RO membranes. Treated water through the RO units will be returned to the cooling tower for recycling, and the waste stream from the MMF and second RO unit will be discharged into onsite evaporation ponds. (PMPD p. 83)

The estimated rate of wastewater discharge into the evaporation ponds from the post treatment MMF unit is 13 gpm for peak conditions and 11 gpm under annual average conditions. Similar to the pre-treatment MMF system, this discharge will occur only when the MMF system is backwashed to remove the build up of residue. (PMPD p. 83)

The estimated rate of wastewater discharge into the evaporation ponds from the post-treatment RO unit is 161 gpm for peak conditions and 137 gpm under annual average conditions. (PMPD p. 83) Evaporation Residue

During the 30-year operating life of the Facility, it is estimated that up to 43 4.5 ft of sludge may accumulate in the bottoms of the evaporation ponds that consists of precipitated solids from the evaporated wastewater. For operational and safety purposes, the ponds will be cleaned when 3 feet of precipitated solids are accumulated in the base of the ponds, which is estimated to be every 7 20 years when using groundwater with a TDS of 5,000 mg/L. Approximately 7,150 8,000 tons of evaporative residues will be accumulated yearly, which equates to approximately 50,000 tons of evaporative residue being removed during each cleanout. The total amount of accumulated sludge is estimated to be approximately 215,000 tons over 30 years removed every twenty years or approximately 12,000 tons during the 30 year project life.

169. SOIL and WATER APPENDICES "C" and "D":

Add Appendixes "C" and "D" to Soil and Water – relative to waste discharge requirements.

CULTURAL RESOURCES

170. Page 11, paragraph 2:

There are presently 24 27 further resources in the proposed GSEP site footprint and linear facilities corridor that are eligible for listing in the CRHR for the purpose of the present siting case. These resources include 9-12 prehistoric sites, 14 historical archaeological sites, and the historic-period component of 1 multi-component site.

171. Page 12, last paragraph:

We support Staff's conservative approach of assuming the worst case scenario as a baseline for impacts analysis and mitigation, then verifying the results in subsequent surveys as required by conditions of certification (7/21/10 RT 196:14-20). (See *Riverwatch* v. *County of San Diego* (1999) 76 Cal.App.4th 1428, 1453).

172. Page 19, first paragraph, line 6:

The mitigation planned for the 27 directly impacted cultural resources is data recovery. a combination of data recovery and other mitigation depending on the nature of each resource. Six of these 27 resources are potential contributors to

the PTNCL, and as such staff considers them to be ethnographic resources (Ex. 403, p. C.3-129). Staff designed **CUL-1** specifically for all ethnographic resources.

173. Page 19, Conclusion Re: Direct Impacts:

Conclusion Re: Direct Impacts We are left with the following observations: archaeological recovery is inherently destructive, so avoidance is the preferred way to mitigate impacts to known cultural resources. (7/21/10 RT 180:12-15; 210:12-14.) The GSEP has been redesigned to avoid 55 known cultural resources, but its construction will still directly impact 27 known cultural resources. (7/21/10 RT 147:21-148:12; 208:2-

9.) The mitigation planned for the 27 directly impacted cultural resources is data recovery. (7/21/10 RT 193:12-20; 196:14-20.) Data recovery mitigates impacts to scientific values but not ethnographic or cultural (spiritual) values. (7/21/10 RT 147:21-148:12.)

It appears that Staff omitted ethnographic values in their calculation of the worst case scenario. In the worst case scenario, at least some of the significant cultural resources assumed to be present at the site should also be assumed to contain ethnographic values. The only way to mitigate ethnographic values is avoidance.

(7/21/10 RT 147:21-148:12.) Since data recovery of the cultural resources directly impacted by the GSEP would not mitigate the ethnographic values, the proposed mitigation (data recovery) would not fully mitigate direct impacts. Therefore, it is difficult to conclude that the direct impacts to cultural resources imbued with ethnographic values can be mitigated to insignificance if those resources are also to be collected, catalogued and curated. Furthermore, the testimony of Staff's expert confirms that sacredness is in the eye of the beholder. (7/21/10 RT 150:4-14; 175:12-19.)

We are left with the following observations: damage to cultural resources is often permanent and cannot be repaired. Further, cultural resources mitigation strategies such as archaeological excavation preserve some important values – such as data – while simultaneously destroying other values – such cultural or spiritual values. These contradictions have resulted in a common preference for avoidance as a primary mitigation strategy. For cultural resources in general, CEQA gives a priority to avoidance. CARE also advocates avoidance. However, there are many mitigation strategies that preserve the multiple kinds of values inherent in cultural resources. In addition to encouraging the applicant to avoid 55 known cultural resources, staff has also designed multiple mitigation strategies for the remaining 27 cultural resources that will be directly impacted by GSEP construction. Data recovery will reduce the loss of information in these resources to less-than-significant. However, at least six, and perhaps more, of the 27 resources have cultural or ethnographic values as well as information

values. Staff has designed several mitigation strategies that will reduce the impacts to these cultural values, but we conclude that reducing them to a level of less-than-significant may be impossible.

<u>It seems that everyone agrees that</u> sacredness is in the eye of the beholder, <u>and that damage to sacredness is difficult or impossible to mitigate.</u> (7/21/10 RT 150:4-14; 175:12-19.)

174. Under Public Comments, just before the comments of Rachael Stellar:

<u>CURE</u> submitted "comments" which were essentially identical to the arguments made in their briefs. The Decision addresses CURE's arguments, above.

175. Page 25 – 26, Alfredo Acosta Figueroa:

Alfredo Acosta Figueroa introduced himself as the person in the La Cuna de Aztlan video and Chemehuevi Tribal Monitor of the sacred sites. He expressed his concern about the public participation process and the decision to hold hearings in Sacramento instead of Blythe. He complained that he did not receive notice of the informational hearing until the day before the hearing. (PMPD pp. 25-26)

The record indicates that considerable efforts were undertaken to ensure the Native American community received notice of the proposed project and given the opportunity to fully participate.

The applicant contacted the NAHC by email on October 17, 2007, in order to obtain information on known cultural resources and traditional cultural properties, and to learn of any concerns Native Americans may have about the GSEP. In addition, they requested a list of Native Americans who have heritage ties to Riverside County and who want to be informed about new development projects there (Farmer et al. 2009, app. E). The NAHC responded on October 19, 2007, with the information that the Sacred Lands File (SLF) database failed to indicate the presence of Native American cultural resources in the immediate GSEP vicinity. The NAHC also forwarded a list of Native American groups or individuals interested in development projects in Riverside County.

On November 26, 2007, the Palm Springs-South Coast Field Office of the BLM sent letters to 28 Native American groups, including those identified by the NAHC, initiating government-to-government consultation for the proposed project. In addition the letter invited comments or concerns regarding potential impacts to cultural resources or areas of traditional cultural importance within the vicinity of the proposed project. On November 23, 2009, an additional letter was sent to the Agua Caliente Band of Indians and informational copies to 12 groups listed in Cultural Resources Table 3, noting the Federal Register publication of the NOI for the proposed project. The letter urged any concerned groups to

<u>utilize the Section 106 process to provide comments or specific concerns.</u> (Exhibit 400 Staff Assessment C.3-56 to C.3-58)

The record indicates a number of contacts and meetings between various tribes and the BLM early on in the process between November, 2007, and December, 2009. The details of these contacts are listed in Cultural Resources Tables 4 and 5. A number of tribes—Agua Caliente Band of Cahuilla Indians, Morongo Band of Mission Indians, Cabazon Band of Mission Indians, Torres-Martinez Desert Cahuilla Indians, Pechanga Band of Luiseño Indians, Anza Cahuilla, Ramona Band of Mission Indians, Twentynine Palms Band of Mission Indians, and San Mañuel Band of Mission Indians—attended meetings with BLM and Commission staff about various solar energy and transmission line projects in the region. (Exhibit 400 Staff Assessment C.3-58 to C.3-59)

176. Page 26, Finding of Fact #5:

There are presently 28 23 known resources in the proposed GSEP site footprint and linear facilities corridor that staff assumes are eligible for listing in the NRHP and the CRHR.

177. Page 27, CUL-1:

CUL-1: The project owner shall contribute to a special fund set up by the Energy Commission and/or BLM to finance the completion of the PTNCL Documentation and Possible NRHP Nomination program presented in the cultural PTNCL Genesis Solar Energy Project (GSEP) Revised Staff Assessment (RSA). (PMPD p. 27)

178. Page 28, CUL-1 Verification:

The project owner shall make the required installment payment promptly upon receipt of an invoice from the Energy Commission or from the BLM. No later than 10 days after receiving notice of the successful transfer of funds for any installment to the Energy Commission's and/or BLM's special PTNCL fund, the project owner shall submit a copy of the notice to the Energy Commission's Compliance Project Manager (CPM).

179. Page 28, CUL-2: Change to read as follows:

CUL-2 The project owner shall contribute to a special fund set up by the Energy Commission and/or BLM to finance the completion of the Documentation and Possible NRHP Nomination program presented in the GSEP RSA. The project owner shall contribute to a special fund set up by the Energy Commission and/or BLM to finance the completion of the DTCCL Documentation and Possible NRHP Nomination program presented in the

<u>cultural DTCCL Genesis Solar Energy Project (GSEP) Revised Staff</u> Assessment (RSA).

180. Page 29, CUL-2 Verification:

CUL-2, Verification, The project owner shall make the required installment payment promptly upon receipt of an invoice from the Energy Commission or from the BLM. No later than 10 days after receiving notice of the successful transfer of funds for any installment to the Energy Commission's and/or BLM's special PTNCL fund, the project owner shall submit a copy of the notice to the Energy Commission's Compliance Project Manager (CPM).

181. Page 30, last paragraph,

The Project Ethnographer's (PE) training and background must meet the NPS standards for Anthropologist/Applied Ethnographer (GS-190, [delete space] 11-12 or 13-15).

182. Page 46, CUL-11:

d. Buried features shall be excavated by hand or by mechanical "stripping" with a backhoe bucket to remove sterile overburden <u>until 20 centimeters above the limits of the feature</u>, as identified in the trench wall, then excavating the remainder of the feature by hand, using the standard archaeological methods as outlined by the California SHPO; and

183. Page 49 - CUL-14, show as "Deleted."

Pages 50 and 52 – CUL-15, show as "Deleted"; Renumber existing Conditions CUL-16 through CUL-18.

LAND USE

184. Page 2:

The GSEP site (1,890 1,800 acres) is located within the "Moderate Use" category of the BLM's <u>California Desert Conservation Area</u> (CDCA) Plan. **Appendix A** of this Decision provides a general description of the land use LORS applicable to the proposed project and surrounding lands

185, Page 3, paragraph 2:

The GSEP site currently consists of largely undisturbed desert land. A single four-wheel drive road runs north-south through the western portion of the greater 4,640-acre ROW area, but would be approximately 4.5 miles west of the GSEP facility. Access to the GSEP facility would be provided via a new access road

constructed to the site from the Wiley's Well Rest Area off of I-10. (Ex. 400, p. C.6-4.) But as indicated in this document's Cultural Resources Condition of Certification CUL-16, use of this new access road will be limited to the public by virtue of a gate to prevent illegal and unauthorized public access.

186. Page 3, yellow highlighted text:

a minimum of two groundwater wells and a set of storage tanks for Each 125-MW unit that would include a 700,000 500,000 gallon raw water/fire water tank, a 1,250,000 200,000 gallon treated water tank, and a 250,000 155,000 gallon wastewater tank each 125-MW unit would have three one, 5 8-acre double-lined evaporation ponds, totaling 10 acres of ponds for the two units (Evidentiary Hearing July 12 transcript, pg. 145) approximately 6.5 miles of 230-kV gen-tie transmission line routed in a southeasterly ROW connecting to the Blythe Energy Project Transmission Line (BEPTL) and ultimately terminating at the proposed, expanded Southern California Edison (SCE) Colorado River Substation;

187. Page 4, Wilderness and Recreation

Wilderness and Recreation. Approval of the proposed project would directly remove approximately 1,800 acres from potential use for recreational opportunities such as backpacking, camping, hunting, or other activities. These activities are determined, in part, by the California Desert Conservation Area (CDCA) Plan.

188. Page 5:

The project would not be constructed on wilderness lands so it would not directly disrupt activities in a federal wilderness area. However, the Palen/McCoy Wilderness north of the project site attracts <u>limited, annual</u> visitors based on its scenic, biological, cultural, and recreational amenities. <u>Observations by BLM and Law Enforcement Ranger staff indicate only 100 to 200 hikers per year within the wilderness area (Genesis FEIS, page 3.13-3) The proposed project would not substantially reduce the scenic value of this wilderness area (see the Visual Resources section of this Decision). (Ex. 400, p. C.6-10.)</u>

The 3,632-acre Palen Dry Lake <u>Area of Critical Environmental Concern</u> (ACEC) occurs southwest of the project site and is managed for protection of its prehistoric resources as a Multiple Use Class M (moderate) unit

TRAFFIC AND TRANSPORTATION

189. Page 2, paragraph 1, line 14:

The nearest rail passenger service stations are Amtrak stations in Palm Springs, California and Yuma, Arizona. The Desert Center Airport is located

approximately 13 miles to the west of the GSEP; it will not be affected by the project's construction or operation. Similarly, the Blythe Airport is located approximately 15 miles to the east and its operation will not be affected by the GSEP.

190. Page 2, Construction Traffic:

The construction of GSEP will be completed in two phases over approximately 37 months. Phase 1 will consist of the Unit 1 powerblock, access road, gas and transmission line and Phase 2 will consist of the Unit 2 powerblock. The construction workforce will peak during month 23 with approximately 4,093 1,085 workers per day and average approximately 652 646 workers during the course of construction. (Ex. 400, p. C.10-6.)

A worst-case scenario, where all workers commute with only one occupant per vehicle, would yield a peak trip generation of approximately 1,093 1,085 inbound trips during the morning peak period and another 1,093 1,085 outbound trips during the evening peak period.

191. Page 6, paragraph 4:

Condition of Certification **TRANS-1** requires a Traffic Control Plan (TCP) for the three solar projects. In addition to the standard traffic measures contained in a TCP such as a flagperson and sinage notifying drivers of construction traffic, in lieu of coordinating construction schedules and park and ride for the three projects, each TCP contains the following two measures to address stacking on I-10:

- A work schedule and end-of-shift departure plan designed to ensure that stacking does not occur on intersections necessary to enter and exit the project sites. The project owner shall consider using one or more of the following measures designed to prevent stacking: staggered work shifts; off-peak work schedules; restricting travel to and departures from each project site to 10 or fewer vehicles every three minutes during peak travel hours on Interstate 10. The project owner may use any of the above traffic measures or any other measures if the project owner can demonstrate that the implemented measures would ensure that Interstate 10 operates at a Level of Service (LOS) C or higher during the peak travel hours.
- Provisions for an incentive program such as an employer-sponsored
 Commuter Check Program to encourage construction workers to carpool and/or use van or bus service

Condition of Certification TRANS-1 requires a Traffic Control Plan (TCP) for the three solar projects. In addition to the standard traffic measures contained in a TCP such as a flag-person and signage notifying drivers of construction traffic, in

lieu of coordinating construction schedules and park and ride for the three projects, each TCP contains the following two measures to address stacking on I-10:

A work schedule and end-of-shift departure plan designed to ensure that stacking does not occur on intersections necessary to enter and exit the project sites. The project owner shall consider using one or more of the following measures designed to prevent stacking: staggered work shifts; off-peak work schedules; restricting travel to and departures from each project site to 10 or fewer vehicles every three minutes during peak travel hours on Interstate 10.

The project owner may use any of the above traffic measures or any other measures if the project owner can demonstrate that the implemented measures would ensure that Interstate 10 operates at a Level of Service (LOS) C or higher during the peak travel hours.

- Provisions for an incentive program such as an employer-sponsored Commuter Check Program to encourage construction workers to carpool and/or use van or bus service
- To coordinate construction schedules;
- To ensure that during overlapping construction periods traffic control measures such as staggered work schedule start times, and;
- Incentives for carpooling, such as an employer-sponsored Commuter Check Program.

With implementation of these measures, the transportation related impacts will be less than significant.

192. Page 10, paragraph 4:

The evidence of record contains a discussion of proposed projects near the GSEP project site along the I-10 corridor in eastern Riverside County including: the Blythe Solar Power Project, Palen Solar Power Project and the GSEP. All three projects are in close proximity to one another and their construction schedules will overlap. Since the Blythe, Palen and Genesis projects will have overlapping construction schedules, traffic impacts could potentially be exacerbated locally along I-10 and each project's interchange/local intersections and at the above intersections. Without mitigation, the traffic and transportation impacts of the Blythe, Palen and Genesis solar Projects have the potential to result in cumulatively considerable impacts to I-10 as well as to local streets, highways, and intersections in the vicinity of the project sites. Condition of

Certification **TRANS-1** requires that traffic control plans be <u>implemented</u> coordinated for all three projects. The Blythe and Palen projects also include this Condition of Certification. The traffic plans will include park-and-ride bus transportation and staggered work schedule start times to ensure acceptable traffic levels of service on I-10 are maintained throughout the projects' construction periods. Condition of Certification **TRANS-5** ensures repair of any roadway damage caused by construction equipment and supply delivery. The Blythe and Palen Projects also include this Condition. (Ex. 400, pp. C.10-18 to C.10-23.)

193. Page 11, Findings of Fact #2:

With the Conditions of Certificate, Certification the GSEP will comply with all applicable LORS related to Traffic and Transportation.

SOCIOECONOMICS

194. Page 4, Last Paragraph:

The total sales tax estimated during construction is expected to be \$ 1.3 million. The estimated annual property taxes (with solar tax credit) are expected to be \$627,000 and the estimated annual property taxes (without solar taxes) are expected to be <u>approximately</u> between \$10,455,000 (Ex. <u>403</u> 400, p.C.8-32.)

NOISE

195. Page 6, NOISE-2, first paragraph:

NOISE-2 Throughout the construction and operation of Genesis, the project owner shall document, investigate, evaluate, and attempt to resolve all project-related noise complaints. The project owner or authorized agent <u>CPM</u> shall:

196. Page 6, NOISE-2:

The first item on the list is missing a bullet.

VISUAL RESOURCES

197. Page 3, paragraph 3:

There is limited existing development in the vicinity of the site: I-10, roughly two three miles south of the Project site, is the dominant man-made feature. Other developments include Chuckwalla Valley State Prison and Ironwood State Prison, 2-1/2 miles south of I-10 off of Wiley's Well Road. Both are roughly nine

miles southeast of the GSEP site and are visible but visually very subordinate from I-10.

198. Page 6, first highlighted bullet:

Two 500,000 gallon cooling A 700,000 gallon raw water storage tanks; a 265.000 gallon RO feed tank; a 1,250,000 gallon treated water storage tank; a 250155,000 waste water storage tank; a 400000 145,000 gallon demineralized water storage tank;

Two wet cooling towers An air-cooled condenser;

199. Page 6, a. Construction Activities:

Construction activities will occur over approximately 37 months. The construction laydown areas will be provided within the GSEP site or, for construction of the proposed transmission gen-tie line, at Wiley's Well Rest Area southeast of the site north of I-10. Laydown within the GSEP site will thus be potentially visible but will occupy a smaller area than portion of the overall project footprint itself. Laydown will thus have substantially lower impact than either site grading or the completed project itself. The larger impacts of site grading are considered to be less than significant, as analyzed under Operation Impacts, below. The lesser effects of the laydown area within the surrounding main project footprint will thus also be less than significant.

200. Page 7, paragraph 2, line 6:

Furthermore, effectiveness of revegetation in this arid environment is difficult, often of limited effectiveness, and capable of recovery only over a very long-term time frame. Although grading impacts will be similar in extent to the completed project itself, the latter impacts of the project itself were found to be less-than-significant from all KOPs. Therefore, grading impacts will also be less-than-significant. (Ex. 400, p. C.12-22 to C.12-23.)

201. Page 8:

The project is adjacent in proximity to Highway I-10, which is not listed as an eligible State Scenic Highway. Since there are no notable scenic features or resources are present on the site, the GSEP will not directly damage any specific scenic resources located within the project site. (Ex. 400, p. C.12-27.)

202. Page 20, 2. Project Glare:

The evidence confirms that during certain times of day the mirror units can produce substantial glare and that such glare can be experienced by the public from locations in the GSEP vicinity as intrusive nuisances and may be a

distraction, but generally do not pose a visual hazard except for persons within 60 feet of the plant perimeter fence, the distance at which staff determined that project glare could exceed a level deemed safe for the human eye. Public exposure to the GSEP at this distance is not anticipated. There are no known quantitative thresholds for determining unacceptable levels of nuisance or discomfort glare. (Ex. 400, p. C.12-21.)

203. Page 21, paragraph 2, last sentence:

The evidence shows that, with the implementation of Condition of Certification VIS-2, impacts from temporary and permanent lighting at the GSEP will be less than significant. In addition, Condition VIS-2 requires the applicant to prepare a lighting mitigation plan for review by the CPM and Riverside County. The CPM will apply published professional standards and criteria to determine compliance with the Condition VIS-2 at that time. (Ex. 400, p. C.12-22.)

204. Page 21, 3. Cumulative Impacts Mitigation, line 4:

Cumulative impacts can result from individually minor but collectively significant impacts taking place over a period or of time.

205. Page 21, 3. Cumulative Impacts Mitigation, line 5:

The Significance of a cumulative visual impact depends on the degree to which the geographic area including the project is visually exposed and (1) the <u>visual character of a viewshed</u> is altered; (2) scenic features are impaired or removed (32) views of a scenic resource views are impaired or obstructed; or (43) visual character and quality of the cumulative viewshed is diminished; (5) substantial adverse sources of glare are introduced.

206. Page 22, paragraph 3, line 7:

Furthermore, it is BLM's policy that all areas within the California Desert Conservation Area have inherent scenic value and high viewer sensitivity. (Ex. 400, p. C.12-7.)

Secondly, the Applicant's brief implies that the conclusion of significant cumulative impacts within the Chuckwalla Valley are dependent solely on views from KOPs 4a and 4b. However as presented in staff's analysis (Ex. 400 pp. C.12-35) cumulative impacts would occur from a variety of viewpoints, including Highway I-10, Corn Springs Road, and portions of the Chuckwalla Wilderness, from which existing and foreseeable future projects would be visible in conjunction with the proposed project.

Secondly Thirdly, the law is well settled that a project whose individual impacts are less than significant may still contribute to create a cumulatively considerable

impact. (Cal. Code Regs., tit. 14, § 15355; City of Long Beach v. Los Angeles Unified School Dist. (2nd, Dist., 2009) 176 Cal. App. 4th 889; Kings County Farm Bureau v. City of Hanford (1990) 221 Cal. App. 3d 692.)

207. Page 22, paragraph 5, line 4:

GSEP will cumulatively contribute to the large- scale solar development that will change the <u>overall</u> look of Chuckwalla Valley for decades to come. (Ex. 400, p. C.12-35).

The anticipated operational visual impacts of the GSEP in combination with past and foreseeable future projects in the local viewshed of Chuckwalla Valley are considered potentially significant from some sensitive viewpoints, particularly within the Chuckwalla Wilderness and from Highway I-10. The record establishes that anticipated cumulative operational impacts of past and foreseeable future region-wide projects in the southern California desert are considered cumulatively considerable and potentially significant. We agree with Staff's conclusion that the cumulative impacts of the GSEP significant and unmitigable. (Ex. 400, p. C.12-37.)

208. Page 26, VIS-1, Verification:

<u>Verification:</u> At least <u>30</u> 90-days prior to specifying to the vendor the colors and finishes of the first structures or buildings that are surface treated during manufacture, the project owner shall submit the proposed treatment plan to the CPM for review and approval and simultaneously to Riverside County for review and comment. If the CPM determine that the plan requires revision, the project owner shall provide to and the CPM a plan with the specified revision(s) for review and approval by the CPM before any treatment is applied. Any modifications to the treatment plan must be submitted to the CPM for review and approval.

Prior to the start of commercial operation, <u>Upon completion of construction of specific facility structures</u>, the project owner shall notify the CPM that surface treatment of all listed <u>that</u> structures <u>or</u> buildings has been completed and <u>is</u> they are ready for inspection and shall submit one set of electronic color photographs <u>of the structure</u>. from the same key observation points identified in (d) above.

The project owner shall provide a status report regarding surface treatment maintenance in the Annual Compliance Report. The report shall specify a): the condition of the surfaces of all structures and buildings at the end of the reporting year; b) maintenance activities that occurred during the reporting year; and c) the schedule of maintenance activities for the next year.

209. Page 27, VIS-2, Verification:

<u>Verification</u>: At least 90 days prior to ordering any permanent exterior lighting or <u>30 days prior to</u> temporary construction lighting, the project owner shall contact the CPM to discuss the documentation required in the lighting mitigation plan. At least 60 days prior to ordering any permanent exterior lighting, the project owner shall submit to the CPM for review and approval and simultaneously to the County of Riverside for review and comment a lighting mitigation plan. If the CPM determines that the plan requires revision, the project owner shall provide to the CPM a revised plan for review and approval by the CPM.

The project owner shall not order any <u>permanent</u> exterior lighting until receiving CPM approval of the lighting mitigation plan.

Prior to commercial operation, the

210. Page 28, VIS-3: DELETE

211. Page 28, VIS-4, Verification:

<u>Verification:</u> At least 90 days prior to start of construction <u>of the fence</u>, the project owner shall present to the CPM a glare mitigation plan describing the fencing measures and materials proposed for mitigating off-site glare. The plan shall include color samples of slatted fencing proposed for use. If the CPM determine that the plan requires revision, the project owner shall provide to the CPM a revised plan for review and approval by the CPM.

The project owner shall not begin construction <u>of the fence</u> until receiving CPM approval of the revised plan.

Within 48 hours of receiving...

OVERRIDE FINDINGS

212. Page 1, 1. Significant Direct Impact to Cultural Resources:

The record shows that 24 <u>27</u> significant cultural resources were deemed to be present on the GSEP site footprint and linear corridor. Staff employed a "worst case scenario" to determine the presence of the 24 <u>27</u> significant cultural resources. Nine <u>Twelve</u> of the 24 <u>27</u> cultural resources were prehistoric and the remaining 15 were historical archaeological sites. Staff's analysis concluded that data recovery would mitigate direct impacts to these cultural resources below significance to a less-than-significant level. However, we found that a true worst case scenario must include the possibility that at least of the presumed-significant cultural resources would contain ethnographic values. The record establishes that the only way to mitigate ethnographic values is avoidance, not

data recovery. Since data recovery of the cultural resources directly impacted by the GSEP would not mitigate the ethnographic values, the proposed mitigation (data recovery) would not fully mitigate direct impacts to cultural resources containing ethnographic values. Therefore the Committee found an unmitigable direct impact.

The Applicant avoided 55 known cultural resources and designed multiple mitigation strategies for the remaining 27 cultural resources that will be directly impacted by GSEP construction. Data recovery will reduce the loss of information in these resources to less-than-significant. However, at least six, and perhaps more, of the 27 resources have cultural or ethnographic values as well as information values. The record contains several mitigation strategies designed to reduce the impacts to these cultural values, but we conclude that reducing them to a level of less-than-significant may be impossible. Specifically, mitigation to reduce impacts to ethnographic values to levels below significance is likely infeasible as impacts may be the result of proximity to the project site. Therefore the Committee found an unmitigable direct impact.

213. Page 5,

Terry O'Brien, Deputy Director of the California Energy Commission Siting, Transmission and Environmental Protection Division, representing the Energy Commission Staff, submitted written testimony entitled "Staff Comments Regarding a Possible Energy Commission Finding of Overriding Considerations for the Genesis Solar Energy Project." (Ex. 437). Dr. Beth Bagwell and Mike Monasmith also offered testimony in support of an override relating to the area of Cultural Resources. (7/21/10 RT 148:13-25; 149:1-15,156:3-25, 157:1-25, 158:1-25, 159:1-12).

Dated: September 28, 2010 at Sacramento, California.

JAMES D. BOYD

Vice Chair and Presiding Member Genesis Solar AFC Committee ROBERT B. WEISENMILLER

Commissioner and Associate Member

Genesis Solar AFC Committee



BEFORE THE ENERGY RESOURCES CONSERVATION AND DEVELOPMENT COMMISSION OF THE STATE OF CALIFORNIA 1516 NINTH STREET, SACRAMENTO, CA 95814 1-800-822-6228 – WWW.ENERGY.CA.GOV

APPLICATION FOR CERTIFICATION FOR THE GENESIS SOLAR ENERGY PROJECT

Docket No. 09-AFC-8

PROOF OF SERVICE (Revised 8/5/10)

APPLICANT

Ryan O'Keefe, Vice President Genesis Solar LLC 700 Universe Boulevard Juno Beach, Florida 33408 <u>e-mail service preferred</u> Ryan.okeefe@nexteraenergy.com

Scott Busa/Project Director Meg Russel/Project Manager Duane McCloud/Lead Engineer NextEra Energy 700 Universe Boulvard Juno Beach, FL 33408 Scott.Busa@nexteraenergy.com Meg.Russell@nexteraenergy.com Duane.mccloud@nexteraenergy.com e-mail service preferred Matt Handel/Vice President Matt.Handel@nexteraenergy.com e-mail service preferred Kenny Stein, **Environmental Services Manager** Kenneth.Stein@nexteraenergy.com

Mike Pappalardo
Permitting Manager
3368 Videra Drive
Eugene, OR 97405
mike.pappalardo@nexteraenergy.com

Kerry Hattevik/Director West Region Regulatory Affairs 829 Arlington Boulevard El Cerrito, CA 94530 Kerry.Hattevik@nexteraenergy.com

APPLICANT'S CONSULTANTS

Tricia Bernhardt/Project Manager Tetra Tech, EC 143 Union Boulevard, Ste 1010 Lakewood, CO 80228 Tricia.bernhardt@tteci.com James Kimura, Project Engineer Worley Parsons 2330 East Bidwell Street, Ste.150 Folsom, CA 95630 James.Kimura@WorleyParsons.com

COUNSEL FOR APPLICANT

Scott Galati, Esq.
*Marie Mills
Galati/Blek, LLP
455 Capitol Mall, Suite 350
Sacramento, CA 95814
sqb-llp.com
mmills@qb-llp.com

INTERESTED AGENCIES

California-ISO <u>e-recipient@caiso.com</u>

Allison Shaffer, Project Manager Bureau of Land Management Palm Springs South Coast Field Office 1201 Bird Center Drive Palm Springs, CA 92262 Allison_Shaffer@blm.gov

INTERVENORS

California Unions for Reliable
Energy (CURE)
c/o: Tanya A. Gulesserian,
Rachael E. Koss,
Marc D. Joseph
Adams Broadwell Joesph
& Cardoza
601 Gateway Boulevard,
Ste 1000
South San Francisco, CA 94080
tgulesserian@adamsbroadwell.com
rkoss@adamsbroadwell.com

Tom Budlong 3216 Mandeville Cyn Rd. Los Angeles, CA 90049-1016 tombudlong@roadrunner.com Mr. Larry Silver
California Environmental
Law Project
Counsel to Mr. Budlong
<u>e-mail preferred</u>
<u>larrysilver@celproject.net</u>

Californians for Renewable Energy, Inc. (CARE) Michael E. Boyd, President 5439 Soquel Drive Soquel, CA 95073-2659 michaelboyd@sbcglobal.net

Lisa T. Belenky, Senior Attorney Center for Biological Diversity 351 California St., Suite 600 San Francisco, CA 94104 lbelenky@biologicaldiversity.org

Ileene Anderson
Public Lands Desert Director
Center for Biological Diversity
PMB 447, 8033 Sunset Boulevard
Los Angeles, CA 90046
ianderson@biologicaldiversity.org

OTHER

Alfredo Figueroa 424 North Carlton Blythe, CA 92225 lacunadeaztlan@aol.com

ENERGY COMMISSION

JAMES D. BOYD Commissioner and Presiding Member jboyd@energy.state.ca.us

ROBERT WEISENMILLER Commissioner and Associate Member rweisenm@energy.state.ca.us

Kenneth Celli Hearing Officer kcelli@energy.state.ca.us Mike Monasmith
Siting Project Manager
mmonasmi@energy.state.ca.us

Caryn Holmes Staff Counsel cholmes@energy.state.ca.us

Robin Mayer Co-Staff Counsel rmayer@energy.state.ca.us *Jared Babula Co-Staff Counsel jbabula@energy.state.ca.us

Jennifer Jennings
Public Adviser's Office
<u>e-mail service preferred</u>
publicadviser@energy.state.ca.us

DECLARATION OF SERVICE

I, RoseMary Avalos, declare that on September 28, 2010, I served and filed copies of the attached ERRATA TO THE PRESIDING MEMBER'S PROPOSED DECISION dated, September 28, 2010. The original document, filed with the Docket Unit, is accompanied by a copy of the most recent Proof of Service list, located on the web page for this project at: [http://www.energy.ca.gov/sitingcases/genesis_solar].

The documents have been sent to both the other parties in this proceeding (as shown on the Proof of Service list) and to the Commission's Docket Unit, in the following manner:

FOR SERVICE TO ALL OTHER PARTIES:

(Check all that Apply)

Χ	sent electronically to all email addresses on the Proof of Service list;
	by personal delivery;
	by delivering on this date, for mailing with the United States Postal Service with first-class postage thereon fully prepaid, to the name and address of the person served, for mailing that same day in the ordinary course of business; that the envelope was sealed and placed for collection and mailing on that date to those addresses NOT marked "email preferred."
AND	
	FOR FILING WITH THE ENERGY COMMISSION:
Χ	sending an original paper copy and one electronic copy, mailed and emailed respectively, to the address below (<i>preferred method</i>);
OR	
	depositing in the mail an original and 12 paper copies, as follows:

CALIFORNIA ENERGY COMMISSION

Attn: Docket No. <u>09-AFC-8</u> 1516 Ninth Street, MS-4 Sacramento, CA 95814-5512 <u>docket@energy.state.ca.us</u>

I declare under penalty of perjury that the foregoing is true and correct, that I am employed in the county where this mailing occurred, and that I am over the age of 18 years and not a party to the proceeding.

Original Signed By:
ROSEMARY AVALOS
Hearing Adviser's Office