

CALIFORNIA ENERGY COMMISSION

1516 NINTH STREET
SACRAMENTO, CA 95814-5512

May 5, 2008

Cindy Poire, Project Manager
URS Corporation
130 Robin Hill Road, Suite 100
Santa Barbara, CA 93117

DOCKET	
07-AFC-9	
DATE	MAY 05 2008
RECD.	MAY 05 2008

Dear Ms. Poire:

CANYON POWER PLANT DATA REQUESTS 1 THROUGH 55 (07-AFC-9)

Pursuant to Title 20, California Code of Regulations, section 1716, the California Energy Commission staff requests that Kings River Conservation District, the project applicant, supply the information specified in the enclosed data requests. The information requested is necessary to: 1) more fully understand the project, 2) assess whether the facility will be constructed and operated in compliance with applicable regulations, 3) assess whether the project will result in significant environmental impacts, 4) assess whether the facilities will be constructed and operated in a safe, efficient and reliable manner, and 5) assess potential mitigation measures.

This set of data requests (#1-55) is being made in the areas of air quality, biological resources, cultural resources, hazardous materials, socioeconomics, traffic and transportation, soil and water resources, and waste management. Written responses to the enclosed data requests are due to the Energy Commission staff on or before June 4, 2008, or at such later date as may be mutually agreeable.

If you are unable to provide the information requested, need additional time, or object to providing the requested information, you must send a written notice to both Commissioner Jeffrey D. Byron, Presiding Committee Member for the Canyon Power Plant, and to me, within 20 days of receipt of this letter. The notification must contain the reasons for not providing the information, the need for additional time, and the grounds for any objections (see Title 20, California Code of Regulations, section 1716 (f)).

If you have any questions, please call me at (916) 651-0965, or e-mail me at cmcfarli@energy.state.ca.us.

Sincerely,

Che McFarlin, Project Manager
Energy Facilities Siting

Enclosure

cc: POS
Docket 07-AFC-9

PROOF OF SERVICE (EST. 3/15/08) FILED WITH
ORIGINAL MAILED FROM SACRAMENTO ON 5/6/08

**Canyon Power Plant
Data Requests
(07-AFC-9)**

Technical Area: Air Quality

Author: Joe Loyer

BACKGROUND: EMISSION REDUCTION CREDITS AND OFFSETS

The Southern California Public Power Authority (SCPPA) proposes two possible mitigation strategies for the Canyon Power Plant (CPP) project particulate matter (PM10) emissions. SCPPA proposes to either purchase emission reduction credits (ERCs) on the open market or from the South Coast Air Quality Management District (District) Priority Reserve (Rule 1309.1).

The AFC states that insufficient PM10 ERCs have been secured to date, either through option contracts or outright ownership, and that the applicant is making a good faith effort to purchase ERCs as required from the Priority Reserve program. For staff to complete its analysis and to present testimony that the project is fully mitigated, evidence needs to be provided by the applicant that credits have been secured.

DATA REQUEST

1. Please identify any PM10 ERCs owned by the applicant that the District will require to be surrendered as a condition for participation in the Priority Reserve. Please include the ERC number and amount in pounds per day, and ERC source location and holder name.
2. If the applicant is unable to adequately respond to Data Requests 1 above, please provide a status report starting June 1, 2008, and monthly until the District has issued the final determination of compliance. The report should provide new and updated information from previous status reports as appropriate. The reports should include:
 - a. contact names and telephone numbers;
 - b. company or source names;
 - c. pollutant credit types and amounts in pounds per day;
 - d. ERC certificate numbers;
 - e. the methods of emission reductions (e.g., shutdown, reduction of hours of operation, emission controls, etc.);
 - f. the status of ERC or option negotiations;
 - g. the location of the emission reduction credits.

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BACKGROUND: NITROGEN OXIDES

The applicant proposes to rely on the District's nitrogen oxides (NO_x) RECLAIM program to acquire emission reduction credits to mitigate the project's NO_x emission impacts.

DATA REQUEST

3. Please provide a list of NO_x RECLAIM trading credits (RTCs) that the applicant owns or has under option contract. Please update staff as to the status of securing the NO_x RTCs as part of the status report discussed in Data Request 2.

BACKGROUND: CUMULATIVE ASSESSMENT

The applicant indicates on page 6.2-49 in the AFC that the required cumulative assessment will be completed and submitted as pertinent data becomes available from the District.

DATA REQUEST

4. Please provide the estimated date that the cumulative assessment will be complete.
5. Please include a status of the activities regarding the cumulative assessment, until its completion, in the monthly status report.

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Technical Area: Biological Resources

Author: Laurel Cordonnier

BACKGROUND

The Canyon Power Plant Applicant stated during an April 24, 2008 site visit that four transmission lines will need to be installed beneath Carbon Creek Channel by jack and bore drilling. In the AFC, jack and bore drilling is discussed and states that a federal Clean Water Act Section 404 permit may need to be obtained from the US Army Corps of Engineers (USACE) for this work. Energy Commission staff needs to know the status of the USACE Section 404 Permit process to complete its analysis.

DATA REQUESTS

6. Please provide a summary of your communication with the USACE regarding the need for a Section 404 permit.
7. If the USACE indicates that a permit will be needed, please provide information about when the application for the permit was filed with the USACE and, based upon USACE comments, an estimation of when the permit is likely to be provided to the project developer.

BACKGROUND

For the jack and bore drilling operation, the applicant stated that there will be four sending pits approximately 8 feet wide by 20 feet long and four receiving pits approximately 8 feet wide by 10 feet long. All pits will be approximately 26.5 feet deep, which would place the casing 5 feet below the culvert base. Energy Commission staff needs more information regarding the plans for the jack and bore drilling to complete the analysis.

DATA REQUESTS

8. Please provide a detailed description of the jack and bore drilling operation and all proposed measures to be implemented to avoid impacts to Carbon Creek Channel.
9. Please provide a description of the procedures to be implemented in the event of a frac-out.
10. Please provide a map showing where the launching and receiving pits will be located in relation to the creek banks.

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(07-AFC-9)**

Technical Area: Cultural Resources

Author: Beverly E. Bastian

BACKGROUND

The Canyon Power Plant Application for Certification (AFC) indicates that the volume of soil that will be removed and the volume that will be re-used on site should be about the same (p. 3-39), such that off-site soil disposal should not be necessary. An anticipated excess of some 3,600 cubic yards of removed soils is to be used in the plant's final grading plan to avoid the need for soil disposal. In case the project must dispose of soils off-site, staff seeks assurance that a disposal site is available to the applicant that is either a commercial disposal site or that has been previously surveyed and found to contain no significant cultural resources.

DATA REQUEST

11. Please identify a soil disposal site, available to the project if needed, that is either a commercial disposal site or a site that has been previously surveyed and found to contain no significant cultural resources.

BACKGROUND

The AFC identifies the presence of one to two feet of artificial fill (under the surface paving) on the proposed project site (p. 6.7-5). The AFC also mentions soil remediation activities planned for the project site as a means of limiting the City of Anaheim's environmental liability for future uses of the site (p. 6.7-1), but no details are provided, and AFC Appendix M, which is supposed to contain information on soil remediation at the site, is incomplete. The project's Geotechnical Report recommends that the project place five feet of engineered fill under mat or spread foundations for the major structures on the project site. To fully assess the project's potential impacts to archaeological resources possibly buried in native soils on the plant site and along the underground linear facilities, staff needs additional information on the planned soil remediation, on the recommended soil replacement and compaction, and on the extent of excavation into previously undisturbed soils.

DATA REQUESTS

12. Please describe all planned soil remediation activities on the proposed site and include:
 - a. Depth of extant artificial fill to be removed over the entire site, provided as a range in actual elevation; and
 - b. Depth of native alluvium to be removed over the entire site, provided as a range in actual elevation.

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13. Please identify the elevation of the finished grade for the proposed project and provide:
 - a. The proposed thickness of the engineered fill layer over the entire site, provided as a range in actual elevation; and
 - b. The proposed elevation of the top of the remaining native alluvium over the entire site.
14. Please provide the elevation of the greatest depth into intact alluvium to which proposed project excavations would extend at the plant site and along the trenches for the linear facilities (all water and sewer pipelines, the natural gas pipeline, and the transmission line duct banks).

BACKGROUND

The AFC is ambiguous in identifying the landform on which the CPP would be built, with both river terrace and alluvial fan specified (pp. 6.3-11 and 3.3-12). Staff needs clarification on the landform on which the proposed CPP site is located.

DATA REQUEST

15. Please clarify the landform or landforms that serve as the site for the proposed power plant and its ancillary features.

BACKGROUND

A Native American burial (site CA-OR-517) was found at a depth of 5-6 feet in river sand about 0.8 mile from the proposed project site, in the Santa Ana River flood plain. Beth Padon's 1998 review of the known archaeological sites along the Santa Ana River, starting near the proposed project's location and extending 13 miles downriver, additionally identified six important prehistoric habitation sites on the bluffs on either side of the Santa Ana River and another burial in the flood plain, discovered while excavating for a swimming pool. Further, the existence of three prehistoric food processing sites in a canyon mouth about a mile from the proposed project location suggests that all of the landforms associated with the Santa Ana River—the flood plain, the bluffs, and the tributary creeks—were used in prehistory.

To complete the applicant's data submission required for staff to assess the possibility of buried archaeological deposits at the project site, staff needs a geoarchaeological perspective on the prehistoric use of the Santa Ana River landform or landforms on which the proposed project site is located.

DATA REQUEST

16. Please review the extant literatures for archaeology, geoarchaeology, and Quaternary science and provide a summary of what is currently known of the archaeology, paleoenvironment, and historical geomorphology of the landforms or

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landforms in the vicinity of the project site. The primary emphasis of the summary should be the present state of geoarchaeological knowledge regarding the archaeological resources that are characteristically found on landforms in the Santa Ana River watershed that are analogous to those of the proposed CPP project site. The fewer archaeological data available, the more emphasis should be given to the paleoenvironment and the historical geomorphology of the project site to provide a more substantive context for interpreting the possible presence of buried archaeological deposits. Where the data are available, please emphasize the kinds of buried archaeological deposits that have been found, the stratigraphy in, above, and below the deposits, and the depths at which the archaeological deposits in the area typically occur.

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Technical Area: Hazardous Materials Management

Author: Dr. Alvin Greenberg

BACKGROUND

Page 3-28 of the AFC indicates that Table 6.15-1 identifies each chemical by type and intended use and estimates the quantity to be stored onsite. However, this table does not contain the amount of these hazardous materials to be stored on-site. Furthermore, some hazardous materials listed in this table are not identified by chemical name and CAS number (e.g., corrosion inhibitor, non-oxidizing biocide, etc.). In order to properly assess the management of hazardous materials at the proposed power plant, staff needs to know the chemical identity, concentration if a liquid, and maximum amount of each hazardous material proposed for use and storage on the site. If the project is certified by the Energy Commission, the project owner will be limited to using only those hazardous materials, strengths, and amounts listed on this table.

DATA REQUEST

17. Please revise Table 6.15-1 to include the identity, CAS number, and amount of each chemical expected to be stored on site.

BACKGROUND

Page 6.15-10 of the AFC states that ammonia would be delivered by a local supply company and describes the delivery route that would be used. The amount and estimated frequency of ammonia deliveries (per month, per year) is not provided. Staff needs to know the amount transported and frequency of the deliveries in order to adequately assess the risks posed by transporting aqueous ammonia to the site. Additionally, the route described on page 6.15-10 is incorrect and differs from the route described in the Traffic and Transportation section of the AFC (page 6.11-21). This discrepancy needs correction.

DATA REQUEST

18. Please provide the tanker truck capacity for ammonia deliveries and the estimated number of deliveries per month.
19. Please correct the transportation route description found on page 6.15-10 and confirm that the route described in AFC section 6.11 is accurate.

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Technical Area: Socioeconomics

Author: Marie McLean

BACKGROUND

In Section 6.10-4, “Cumulative Impacts,” page 6.10-37, readers are referred to Section 6.18, “Cumulative Impacts,” for information about other major proposed projects with potential to result in cumulative socioeconomic impacts. However, Section 6.18 contains only a map (Figure 6.18.1) with the names and locations of seven projects located within a one-mile radius of project site and one-half mile from linear facilities. Energy Commission staff has identified Environmental Justice populations within a one-mile and six-mile radius of Canyon’s proposed site.

DATA REQUEST

20. Please identify (1) any new or proposed projects and (2) any existing or proposed power plants within a six-mile radius of Canyon’s proposed site and, (2) including the facilities already identified within a one-mile radius of the proposed site.
21. Please provide information about the cumulative socioeconomic impacts (past, present, and reasonably foreseeable future) of those projects in combination with the Canyon project, particularly as they pertain to existing Environmental Justice populations.

BACKGROUND

In Section 6.10.2.3, “Project Impacts to Population and Housing During Operations,” page 6-10-16, text indicates that the new power plant would require nine full-time employees during operation; and later indicates that two employees would be new hires and seven would be existing employees.

DATA REQUEST

22. Please identify those seven existing employees and where they are currently working.
23. Please indicate the operational status of the 47 MW peaker currently operated by the City of Anaheim once Canyon is operational and assess the socioeconomic impacts of that status.

BACKGROUND

In Section 6.10.1.3, “Public Services and Utilities,” page 6-10-9, recreational facilities are not included in the analysis. Recreation is identified in the CEQA Guidelines, as an area of analysis for which a project’s potential to cause significant socioeconomic impacts should be assessed.

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DATA REQUEST

24. Please identify recreational services such as existing neighborhood and regional parks or other recreational facilities and assess the socioeconomic effects of the proposed project on those facilities, for both the project's construction and operational phases.

BACKGROUND

In Section 6.10.2.7.2, "Sales Tax," page 6-10-23 and 6-10-24, text indicates that during construction and operation of the project, local expenditures for commodities are expected to be the same for each county in the project area—Orange, Los Angeles, Riverside, and San Bernardino.

Considering the differences in size of each of the four counties; their proximity to the proposed project; and the difference in the number of workers needed during construction (1,741) and those needed during operation (2), some variance in the amount of sales and use tax collected by each of the counties in the project area would seem to occur.

DATA REQUEST

25. Please revisit the assumptions used on which the amount of sales and use tax for each county was calculated; account for the differences previously listed in this item; and revise the amounts, if necessary. If not necessary, please provide the assumptions used on which the figures in this section were calculated.

BACKGROUND

In Section 6.10.2.7.2, "Sales Tax," page 6-10-23 and page 6-10-24, sales and use tax collected for each county appears to be based on one year of the plant's operation. A reasonable expectation would be that sales and use tax would be generated for the life of the plant.

DATA REQUEST

26. After considering the preceding data request please provide an estimate of the total amount of sales tax for the life of the project, assuming a 30-year project life and the amount of sales and use tax held constant to the base year.

BACKGROUND

In its "Evaluation of Environmental Impacts" section, CEQA Guidelines read, "All answers must take account of the whole action involved, including off-site as well as on-site, cumulative as well as project-level, indirect as well as direct, and construction as well as operational impacts."

In Section 6.10.2.7.4, "Indirect and Induced Economic Effects," pages 6-10-24—6-10-28, text includes information about indirect and induced economic effects of the proposed project during (1) construction and (2) the plant's operation. As identified in

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the text, the analysis of those effects included the project area of Orange, Los Angeles, Riverside, and San Bernardino counties.

Effects were identified as the addition of jobs and the purchase of goods, materials, and services. Those indirect or induced impacts may create additional indirect and induced effects as well on people, housing, services, and neighborhoods.

DATA REQUEST

27. Please identify and assess those indirect or induced impacts on people, housing, services, and neighborhoods.

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Technical Area: Traffic and Transportation

Authors: Shaelyn Strattan

BACKGROUND

AFC §6.11 (p. 6.11-12) and §6.11.2.2.1 (p. 6.11-12) indicate that construction would result in impacts to intersections and roadway segments, related to installation of natural gas, water, wastewater, sewer, and transmission lines, including the potential for detours, lane reductions, and street closures. However, no detailed discussion of these site-specific impacts or proposed traffic control measures is provided.

DATA REQUEST

28. Please discuss the site-specific impacts to intersections and roadway segments that would result during project construction. Identify potential mitigation measures or alternatives to reduce the significance of any potential impacts, including proposed detour or alternate traffic routing and any proposed construction timing or constraints.
29. Please include a table indicating impact by intersection or road segment, estimated length of time the roadway would be affected; mitigation proposed for each location (cite specific code references); and any permit(s) or consultation required (include agency of jurisdiction).

BACKGROUND

AFC §6.11.2.2.3 identified a recommended route for construction traffic, including temporary construction workers, that extends from State Route (SR) 91, north along Kraemer Boulevard, then west on East Miraloma Avenue to the project site. The average daily traffic (ADT) and Level of Service (LOS) analyses for freeway/local roadway segment counts, and peak hour intersection analyses and forecasts for the recommended route were provided. The Applicant's Data Adequacy Supplement, Data Request TRAFFIC-2 (p. TRAFFIC-3), identified a secondary route from SR 57 and an alternate route from SR 91, from the Tustin Avenue exit. However, the ADT counts and LOS analyses for freeway/local roadway segments and peak hour intersection analyses and forecasts for the secondary and alternative routes, along with peak hour freeway/local roadway segment LOS analysis and forecasts for all routes are also needed for Energy Commission staff's analysis.

DATA REQUEST

30. Please provide the peak hour LOS analysis and forecasts for the freeway/local roadway segments identified in AFC Tables 6.11-7 and 6.11-8. Identify the forecast percentage increase in traffic counts during construction over existing levels during peak commute hours.

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31. Please provide the traffic counts, ADT and LOS analyses and forecasts, and the forecast percentage increase in traffic counts during construction over existing levels during peak commute hours for the following secondary and alternate freeway/local roadway segments:
- SR 57 - North of Orangethorpe Ave. exit
 - SR 57 - South of Orangethorpe Ave. exit to SR 57/91 interchange
 - SR 57 – South of SR 57/91 Interchange
 - SR 91 – West of SR 57/91 Interchange
 - SR 91 – N. Kraemer Blvd. to Tustin Ave.
 - SR 91 – East of Tustin Ave.
 - Orangethorpe Ave. - SR 57 EB Orangethorpe Ave. exit to N. Kraemer Blvd.
 - Orangethorpe Ave. – N. Kraemer Blvd. to Tustin Ave.
 - Tustin Ave. – Orangethorpe Ave. to La Palma Ave.
 - Tustin Ave. – La Palma Ave. to SR 91 Interchange
32. Please provide AM and PM peak hour level of service calculations and forecasts for the following secondary and alternative freeway/local roadway intersections:
- N. Kraemer Blvd./Orangethorpe Ave.
 - N. Tustin Ave./La Palma Ave.
 - N. Tustin Ave./Orangethorpe Ave.
 - Orangethorpe Ave./E. Chapman Ave.
 - SR 91/N. Tustin Ave. NB Offramps
 - SR 57/Orangethorpe Ave. EB Offramps

BACKGROUND

AFC §6.11 (p. 6.11-3) and §6.11.2.2.6 (pp. 6.11-16,17) indicate that two offsite parking areas, located at 3150 and 3190 East Miraloma Avenue, at the southeast corner of Kraemer Boulevard and East Miraloma Avenue, would be used as temporary parking areas for workers during the construction phase of the proposed project. AFC §6.9.1.5 (p. 6.9-9) references leased parking would be “provided at an existing parking lot for the duration of the project,” as well as a reference to the two offsite parking areas. Additionally, traffic control measures proposed in AFC §6.11.4.1.2, TRAFFIC-1 (pp. 6.11-22,23) indicate that a pedestrian route will be identified to and from the proposed offsite parking locations. No specific information is available.

DATA REQUEST

33. Please provide a site map depicting the location of all proposed offsite parking areas and the project site. Identify the proposed pedestrian route(s) from all offsite locations to the project site.

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34. Please discuss the existing or proposed temporary parking lot size and design for all off-site locations. The discussion should include;
 - a. The number of parking spaces, by type (auto, delivery truck, handicapped, etc.).
 - b. The location of entrance(s)/exit(s) and indicate if there is an existing city-approved encroachment permit for these locations.
 - c. The lot preparation required on any site, including road work for encroachments, and plans for surfacing and striping or existing surfaces.
35. Please identify any on-street parking that may be used by workers or visitors to the site and any impact that project use of these spaces may have on existing businesses.

BACKGROUND

Based on the information provided in AFC Table 3.7-2, demolition appears to be scheduled to occur during the first three months of construction. As noted in the Project Description (AFC §3.1, p. 3-1), this includes removal of the existing buildings, foundation, and parking lot asphalt. Data concerning the number of projected truck trips during construction, provided in AFC Table 6.11-6, seems to indicate that truck traffic would be consistent throughout the entire construction process, which is inconsistent with demands of the demolition process. AFC §3.4.8.1.1 (p. 3-26) indicates that hazardous wastes will be either recycled or disposed of in a licensed Class I disposal facility. No other information is provided.

DATA REQUEST

36. Please identify the demolition timeline and number of daily dump truck trips associated with the demolition process.
37. Identify destination and primary route to dump site for rubble, general hours of transport, and whether trucks would be singles or doubles.
38. Please identify the number of trucks, if any, that would be hauling hazardous waste to or from the project during demolition, location of authorized dump site(s), and probable route of travel.

BACKGROUND

AFC §6.11.2.2.1 states that all traffic signs, equipment, and control measures shall conform to the provisions specified in the Caltrans Traffic Manual (Red Book) and the California Manual of Uniform Traffic Control Device (CAMUTCD). Primary access for the project site is along city-maintained roads. There is no discussion of City of Anaheim's or Orange County's Public Works requirements for traffic control, other than an expressed intent to abide by applicable provisions. The applicable provisions are not identified.

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DATA REQUEST

39. Please identify City of Anaheim or Orange County Public Works requirements that would be applicable to road and right-of-way work for the proposed project and discuss how these requirements would be met.

BACKGROUND

AFC §6.11.2.2.7 (p. 6.11-17) identifies bus and Metrolink/Amtrak transit providers for the City of Anaheim, including the general project area, and has indicated that the project's "limited conflicts with transit and rail crossings" would not result in any "significant impacts to public transportation." No other information is provided.

DATA REQUEST

40. Please identify any potential conflicts with existing or proposed public transportation, bicycle, or pedestrian programs, projects, circulation, or operations. Discuss how these potential impacts would be lessened or avoided.

BACKGROUND

As noted above, AFC §6.11.2.2.7 (p. 6.11-17) identifies bus and commuter rail transit providers for the City of Anaheim, including the general project area. There is, however, no discussion of the availability of specific public transportation options for project workers. The City of Anaheim (COA) General Plan (GP) encourages businesses to take advantage of public transportation options to minimize traffic impacts, especially in areas like the Canyon industrial corridor, which contains the proposed project site (COA GP Land Use Element, p. LU-32).

DATA REQUEST

41. Please identify specific bus stops and routes, Metrolink connections, park-and-ride facilities, or other forms of alternative transportation options available to workers arriving/departing the project site. Discuss how these options could lessen traffic impacts during the construction phase of the project.

BACKGROUND

AFC §6.11.3 (p. 6.11-21, 22) and §6.18.1 (6.18-2, 4, 5) indicate the applicant reviewed a list of major projects proposed, in progress, or recently completed within a five-mile radius of the project site. "Major projects" are defined by the applicant as "...either: 1) ...greater than 30,000 square feet; 2) have submitted a defined project application for required approvals or permits; or 3) have been previously approved and may be implemented in the near future." The AFC also indicates that the projects within a five-mile radius are listed on AFC Table 6.18-11 and the locations of these projects are depicted on AFC Figure 6.18-1. However, both Table 6.18-11 and Figure 6.18-1 only identify projects within one mile of the Canyon project site. AFC §6.11.3 (p. 6.11-21, 22) also indicates that cumulative impacts from these projects were included in the Traffic Operations Impact Year 2010 No Project and Project Operations analysis. However, the construction and/or operational schedules for several of the projects identified appear to

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overlap the Canyon project construction timeline. No traffic analysis was provided for potential cumulative impacts during the construction phase of this project.

DATA REQUEST

42. Please provide a copy of the list of major building projects within a five-mile radius of the CPP project site (June 2006 to the present), cited in AFC §6.18-11 and provided by the City of Anaheim Planning Department.

43. Please identify and analyze the potential cumulative impacts from projects identified in AFC Table 6.18-11 and any other projects proposed, in progress, or recently completed within the project study area or at any location where potential cumulative impacts to traffic could occur during the construction phase of the Canyon project.

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Technical Area: Traffic and Transportation – Ground Fogging
Author: William Walters

BACKGROUND

Staff plans to perform a plume modeling analysis for the chiller cooling tower to determine the potential for ground fogging on nearby major roadways, and potentially to determine visible plume frequency. Staff requires additional cooling tower operating information to complete this analysis.

DATA REQUEST

44. Please summarize for the chiller cooling tower the conditions that affect vapor plume formation including cooling tower heat rejection, exhaust temperature, and exhaust mass flow rate. Please provide values to complete the table, and additional data as necessary for staff to be able to determine how the heat rejection load varies with ambient conditions and also determine at what ambient conditions chiller cooling tower cells may be shut down.

Parameter	Chiller Cooling Tower Exhausts		
Number of Cells	4 cells		
Cell Height*	43.5 feet (13.3 meters)		
Cell Diameter*	13 feet (4.0 meters)		
Tower Housing Length*	50 feet (15.2 meters)		
Tower Housing Width*	40 feet (12.2 meters)		
Ambient Temperature	50°F	60°F	70°F
Ambient Relative Humidity			
Number of Cells in Operation			
Heat Rejection (MW/hr)			
Exhaust Temperature (°F)			
Exhaust Flow Rate (lb/hr)			

*Cell diameter and height are from the air quality modeling CD. Tower length and width are from AFC Table 6.13-4.

Additional or different combinations of ambient temperature range can be provided assuming that they accurately represent the range of chiller cooling tower operation and resulting exhaust conditions during ambient conditions when both the cooling tower is operating and when visible plumes could possibly form (temperatures above which the chiller operates and below approximately 80°F).

45. Please confirm that the cooling tower fan motors will not have variable speed/flow controllers.

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Technical Area: Soil and Water Resources

Author: Richard Latteri

BACKGROUND

The Southern California Public Power Authority (SCPPA) is proposing to construct and operate the Canyon Power Plant (CPP). For plant operation, the applicant proposes for the project to use recycled water for all non-potable uses. As an emergency backup supply for SCPPA proposes using potable water from the City of Anaheim. The estimated maximum consumption of potable water as a backup supply for industrial purposes has not been provided.

During construction of the CPP, water will be used for dust control, soil compaction, concrete curing, and hydrostatic testing. The average daily water demand for construction is estimated to be 13,000 gallons per day, with the annual demand estimated to be approximately 3.5 million gallons or 11 acre-feet. The source and quality of water proposed for CPP construction has not been identified.

46. Please provide an estimate of the maximum potable water consumption in gallons per day for CCP industrial purposes in the event of a recycled water delivery interruption and the expected duration of the interruption in hours or days.
47. Please provide an itemized estimate in tabular format of daily and annual average water consumption for plant construction and hydrostatic testing for the CPP project.
48. Please specify whether potable or recycled water will be used for CPP construction and hydrostatic testing. If potable water is proposed for these purposes, please provide a discussion and a justification for its use given the availability of recycled water.

BACKGROUND

By letter dated February 7, 2008 from Orange County Sanitation District (OCSD) to Mr. Che McFarlin, Energy Commission Project Manager, OCSD requests that any and all domestic/sanitary wastewater generated within the CPP be separated and discharged directly to the sewer and bypass the oil-water separator. The OCSD also requests that a fail safe procedure and/or hardware be developed and installed for the CPP to ensure that solvent-containing washwater is not inadvertently discharged to the sewer before storage in collection tanks.

DATA REQUEST

49. Please provide a discussion of how the SCPPA proposes to comply with OCSD's requests for changes to the proposed deposition of wastewater generated by the CPP as stated in their February 7, 2008 letter.

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BACKGROUND

The SCPA proposes to develop and implement a Water Quality Management Plan per the requirements of the City of Anaheim's Municipal Code, Title 10 Public Service and Utilities, Chapter 10.09.

DATA REQUEST

50. Please provide a draft Water Quality Management Plan for the CPP project site and associated liner facilities.

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Technical Area: Waste Management
Author: Ellie Townsend-Hough

BACKGROUND

For any site proposed for the construction of a power plant in California, the applicant must provide sufficient documentation about the nature of any contamination on the site. Staff requires that at the least, a Phase I Environmental Site Assessment (ESA) be prepared and submitted to the Energy Commission for staff's review and evaluation. A Phase I ESA provides a history of use of the site, often as far back as the mid-1800s, and a list of any hazardous waste release within a certain distance of the site. If there is a reasonable potential that the site contains hazardous waste, soil or groundwater would be sampled and analyzed as part of a Phase II ESA.

The Waste Management section of the Application for Certification (AFC) provides a summary of recommendations made in Phase I, Phase II, and Supplemental Phase II ESAs for the project site. The summary indicates there is contaminated soil on the 10-acre site and recommends remediation. It also recommends removal and disposal of septic tanks, underground storage tanks, clarifiers, and hydraulic hoists observed on the site.

There will be a large amount of ground disturbance during project construction. To protect the workers and reduce/eliminate damage to the environment the project owner will be required to verify that no harmful concentrations of any contaminant will be encountered at the proposed project site. The owner of the property, the City of Anaheim, plans to conduct soil remediation activities to limit its environmental liability for future uses of the site.

Staff received one copy of the Phase I ESA and no copies of either the Phase II or Supplemental Phase II. These documents contain site specific information that is necessary for staff to complete it's analysis of site conditions.

DATA REQUEST

51. Please provide four additional copies of the Phase I ESA. Also, provide five copies of the Phase II and Supplemental Phase II ESAs to staff for further evaluation.
52. Please provide staff with a list of state regulating agencies (eg., Department of Toxic Substances Control) that will be responsible for verifying that the 10-acre proposed project site requires no further investigation, that there is no harmful concentrations of any contaminant that will be encountered by workers or the public, and that the site is ready for redevelopment.
53. Please provide names, offices, telephone numbers and any additional contact information of the responsible/oversight agency.

**Canyon Power Plant
Data Requests
(07-AFC-9)**

BACKGROUND

Staff reviews the applicant's proposed solid and hazardous waste management methods and determines if the methods meet the state standards for waste reduction and recycling. Staff then reviews the available off-site treatment and disposal sites available and determines whether or not the proposed power plant's waste would have a significant impact on the disposal sites' allotted daily, yearly, or lifetime volume of waste it is allowed to receive.

Staff requires additional information on the amount of waste generated during demolition, construction and operation. Staff has evaluated Tables 3.4-7, 3.4-8, in Section 3.4, and Tables 6.14-2, 6.14-3 in section 6.0 of the AFC. The two sections do not list the same quantities of construction and operation waste. The construction tables do not provide or indicate which waste is generated by construction versus demolition. The AFC also does not provide an estimate of the amount of asbestos or lead that will be deposited into various landfills.

DATA REQUEST

54. Please provide tables that separate the demolition, construction, and operation waste and reconcile the numbers found in Sections 3.4 and 6.0.
55. Please provide an estimate of the amount asbestos that will be generated from demolition. Please indicate the method and location of asbestos disposal.

BEFORE THE ENERGY RESOURCES CONSERVATION AND DEVELOPMENT COMMISSION OF THE
STATE OF CALIFORNIA

APPLICATION FOR CERTIFICATION
For the CANYON POWER PLANT
PROJECT

Docket No. 07-AFC-9

PROOF OF SERVICE

INSTRUCTIONS: All parties shall either (1) send an original signed document plus 12 copies or (2) mail one original signed copy AND e-mail the document to the address for the Docket as shown below, AND (3) all parties shall also send a printed or electronic copy of the document, which includes a proof of service declaration to each of the individuals on the proof of service list shown below:

CALIFORNIA ENERGY COMMISSION
Attn: Docket No. 07-AFC-9
1516 Ninth Street, MS-14
Sacramento, CA 95814-5512
docket@energy.state.ca.us

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Authority (SCPPA)
c/o City of Anaheim
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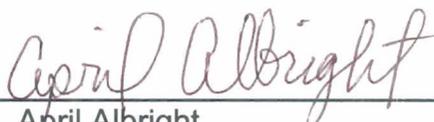
DECLARATION OF SERVICE

I, April Albright, declare that on May 6, 2008, I deposited copies of the attached Canyon Power Plant Data Requests 1 Through 55 (07-AFC-9) in the United States mail with first-class postage thereon fully prepaid and addressed to those identified on the Proof of Service list above.

OR

Transmission via electronic mail was consistent with the requirements of California Code of Regulations, title 20, sections 1209, 1209.5, and 1210. All electronic copies were sent to all those identified on the Proof of Service list above.

I declare under penalty of perjury that the foregoing is true and correct.



April Albright