



TETRA TECH EC, INC.

California Energy Commission

DOCKETED

11-AFC-3

TN # 67139

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September 14, 2012

Mr. Eric Solorio
California Energy Commission
Docket No. 11-AFC-3
1516 9th St.
Sacramento, CA 95814

Cogentrix Quail Brush Generation Project - Docket Number 11-AFC-3, Data Request Responses to Set 6: Data Requests 77 through 86

Docket Clerk:

Pursuant to the provisions of Title 20, California Code of Regulation, Quail Brush Genco, LLC, a wholly owned subsidiary of Cogentrix Energy, LLC, hereby submits the *Data Request Responses to Set 6: Data Requests 77 through 86, for the Quail Brush Generation Project*. The Quail Brush generation Project is a 100 megawatt natural gas fired electric generation peaking facility to be located in the City of San Diego, California.

These responses were compiled in response to the *Energy Commission's Quail Brush Generation Project (11-AFC-3), Staff's Data Requests, 77 through 86*, dated August 15, 2012. This document provides additional information necessary to fulfill the Application for Certification data requests for the following technical areas:

- Cumulative Analysis
- Air Quality
- Worker Safety and Fire Protection

If you have any questions regarding this submittal, please contact Rick Neff at (704) 525-3800 or me at (303) 980-3653.

Sincerely,

Constance E. Farmer
Project Manager/Tetra Tech

cc: Lori Ziebart, Cogentrix
John Collins, Cogentrix
Rick Neff, Cogentrix
Proof of Service List

TETRA TECH EC, INC.



**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 *QUAIL BRUSH GENERATION PROJECT***

**DOCKET NO. 11-AFC-03
PROOF OF SERVICE
(Revised 8/14/2012)**

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DECLARATION OF SERVICE

I, Constance Farmer, declare that on September 14, 2012, I served and filed a copy of the *Data Request Responses to Set 6: Data Requests 77 through 86, for the Quail Brush Generation Project* (11-AFC-03). This document is accompanied by the most recent Proof of Service list, located on the web page for this project at: [<http://www.energy.ca.gov/sitingcases/quailbrush/index.html>].

The document has been sent to the other parties in this proceeding (as shown on the Proof of Service list) and to the Commission's Docket Unit or Chief Counsel, as appropriate, in the following manner:

(Check all that Apply)

For service to all other parties:

- Served electronically to all e-mail addresses on the Proof of Service list;
- Served by delivering on this date, either personally, or for mailing with the U.S. 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 "e-mail preferred."

AND

For filing with the Docket Unit at the Energy Commission:

- by sending an electronic copy to the e-mail address below (preferred method); **OR**
- by depositing an original and 12 paper copies in the mail with the U.S. Postal Service with first class postage thereon fully prepaid, as follows:

CALIFORNIA ENERGY COMMISSION – DOCKET UNIT
Attn: Docket No. 11-AFC-3
1516 Ninth Street, MS-4
Sacramento, CA 95814-5512 docket@energy.state.ca.us

OR, if filing a Petition for Reconsideration of Decision or Order pursuant to Title 20, § 1720:

- Served by delivering on this date one electronic copy by e-mail, and an original paper copy to the Chief Counsel at the following address, either personally, or for mailing with the U.S. Postal Service with first class postage thereon fully prepaid:

California Energy Commission
Michael J. Levy, Chief Counsel
1516 Ninth Street MS-14
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I declare under penalty of perjury under the laws of the State of California 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.

Constance C. Farmer

QUAIL BRUSH GENERATION PROJECT (11-AFC-3)

**Responses to Energy Commission Staff's Data Requests
77 through 86**

September 14, 2012

TECHNICAL AREA ALL:

77. Data Request: Using the same format as the attached Master Project List (Attachment "A"), please populate the list with each project that meets all the following criteria: 1) is located within 6 miles of the proposed Quail Brush Generation Project (QBGP); 2) had an application filed with the relevant permitting entity prior to November 16, 2011 and that application was either approved or is pending final action; and 3) the project was not fully constructed, implemented, or operational prior to November 16, 2011.

Response:

Attachment A contains a list of 31 projects identified within 6 miles of the Quail Brush Generation Project site that conform to the above three criteria for inclusion on the table. These projects were identified through consultation with the City of San Diego, San Diego County, and the Cumulative Source Listing provided by the San Diego Air Pollution Control District (APCD), as discussed below. Publicly available information for each project was reviewed to populate Attachment A with the information requested by the CEC. If the information requested by CEC could not be found from publicly available information for a project, "Unknown" was included in the appropriate cell in Attachment A.

Air Quality Response: The Applicant's submittal to CEC Data Request #17, dated May 10, 2012 presents a detailed response to the requirement for a cumulative air quality impact analysis per the siting regulations in Appendix B (g)(8)(l)(iii), i.e., "...with other stationary emissions sources within a six-mile radius which have received construction permits but are not yet operational, or are in the permitting process." A summary of the Applicant's analysis is re-stated below as clarification for DR #77:

1. Table DR-77, Cumulative Source Listing, was submitted with the 5-10-12 DR #17 response (and provided again in this document as Attachment B), contains a listing of stationary sources within an 8-mile radius of the QBPP site. This list was provided by the San Diego APCD. The search radius was extended beyond the CEC 6-mile radius in order to identify any stationary sources that may be located in close proximity to the 6-mile radius boundary. The radius search meets the requirement set forth in DR #77.
2. Table DR-77 (Attachment B) includes all stationary sources for which permits (new sources or modifications) were issued during the period 2008 through 2011. As such, the list meets the requirements of DR #77 in that it includes sources that "had an application filed with the relevant permitting entity prior to November 16, 2011 and that application was either approved or is pending final action". Further, the Applicant made the assumption that for any source on the list that had an APCD "date" of 2011, that these source emissions were not included in the background air quality values, i.e., "the project was not fully constructed, implemented, or operational prior to November 16, 2011". Since the background air quality values were established using 2009 through 2011 data from CARB and EPA, sources on the list with APCD dates prior to or including 2010, were considered as represented in the background air quality data, i.e., all of these sources had notified the APCD of the completion of construction and commencement of operations. The source list provided, and the Applicant's conservative assumptions on source inclusion, meet the requirements of DR #77.
3. Using the above noted assumptions, the Applicant commenced its review of the source list with the objective of determining which sources on the list were not

required to be included in the cumulative impact analysis. The following steps were used to accomplish this task:

- a. All source listings with APCD dates prior to and including 2010 were removed from consideration. These sources are noted in blue highlight on Table DR-77 (Attachment B). Emissions from these sources are included in the background air quality values for years 2009 through 2011.
- b. All remaining sources outside of the 6-mile radius area were removed from consideration. These sources are noted in green highlight on Table DR-77 (Attachment B).
- c. All remaining sources classified as “emergency standby engines” were removed from consideration based on past CEC policy that such engines were not required to be included in the cumulative impact analysis. These sources are noted in yellow highlight on Table DR-77 (Attachment B).
- d. Sources that were modified in 2011, but had no emissions increases associated with the modifications, were also removed from consideration. These sources are noted in light red highlight on Table DR-77 (Attachment B).

The result of the previous analysis indicates that no stationary sources on the APCD-supplied list meet the requirements of the siting regulations per Appendix B (g)(8)(l)(iii), or DR #77 above. In addition, it should be noted that many of the sources listed in Table DR-77 (Attachment B) can be deleted from the air quality cumulative impact analysis requirement based on one or more of the above noted deletion criteria. As such, a cumulative analysis based on the source list provided by the SDAPCD is not warranted.

The inclusion and/or applicability of a cumulative impact analysis with respect to the Sycamore Landfill (SLF) is addressed in DR #84 and DR #85 below.

78. Data Request: Using Google Earth or a similar source, please provide an aerial photo of the 6-mile radius from the QBGP. The photo should identify the location of the proposed QBGP site and identify the location of each project on the populated Master Project List, produced in response to data request #77, above. Please also provide the GIS files and the kmz file types for the populated aerial photo, if available.

Response:

Figure 1 is an aerial photo that identifies the location of the proposed QBGP site and each project listed on Attachment A. The GIS and .kmz files are provided electronically as an attachment to this submittal.

Air Quality Response: Per the Applicant’s response to DR #77 and DRs #84 and #85 only one potential stationary source is submitted for plotting or display on the requested map, i.e., this source is the Sycamore Landfill facility. The location coordinates provided are for the approximate center of the landfill site which lies north of the QBPP site. This data is as follows:

Site Name: Sycamore Landfill Facility (SLF)
UTM Coordinates: 497488 mE, 3636077 mN, Zone 11
Approximate Distance from QBPP site: 4500 ft.
KMZ file: Sycamore LF.kmz (attached)
Project #1 on Master Project List (Attachment A)

79. Data Request: For consideration of cumulative impacts in the area of Socioeconomics, please provide a list of industrial and commercial projects located in San Diego County, and the cities within the county, that could have construction schedules overlapping with the QBGP. Please provide a list of residential development projects located in the cities of Santee, El Cajon, La Mesa and San Diego. The list of projects should be reported in the same format as shown in Attachment "A", the Master Project List. If the information is available, please identify the amount and type of workforce needed by each project during construction and operation.

Please provide a comprehensive map showing the location of these projects and provide the GIS files and the kmz files if available.

Response:

As stated above in DR #77, Attachment A contains the list of projects in the format requested, providing the publically available information about each project. A separate list for socioeconomics, as requested in this Data Request #79, is not provided because no projects were identified using publically available information that meet the criteria described above. Proposed construction schedules for the types of projects asked for in this data request #79 were not available.

As stated above in DR #77, Figure 1 is an aerial photo that identifies the location of the proposed QBGP site and each project listed on Attachment A. The GIS and .kmz files are provided electronically as an attachment to this submittal. A separate map, as requested in this DR #79, is not provided because no projects were identified using publically available information that meet the criteria described above.

80. Data Request: For consideration of cumulative impacts in the area of Traffic & Transportation, using the populated Master Project List, please identify whether or not a traffic study has been initiated or completed for projects located within a 5-mile radius of the QBGP. If a traffic study is complete and available via the internet then please provide the URL. If the study is not complete or not available via the internet then please provide the contact info for the government agency with oversight of the CEQA review for each project.

Response:

Attachment A contains the list of projects and the publically available information about each project, noting whether it could be determined that a traffic study has been completed for the project, and providing contact information for the CEQA lead agency.

81. Data Request: For consideration of cumulative impacts in the area of Land Use, please identify which projects on the populated Master Project List that are being proposed on parcels zoned "open space". Also please identify which projects, if any, have proposed a Boundary Line Adjustment to the City of San Diego's Multi-Habitat Planning Area (MHPA).

Response:

Attachment A contains the list of projects and the publically available information about each project, including if projects are proposed on parcels zoned "open space" and if the project has proposed a Boundary Line Adjustment to the MHPA.

82. Data Request: For consideration of cumulative impacts in the area of Biological Resources, for each project on the populated Master Project List that is proposed on undisturbed lands, please identify the total acreage of the proposed disturbance area and any environmental review (e.g. EIR, Neg. Dec., EA) that is underway. If an environmental document has been prepared and available via the internet then please provide the URL. Also please provide the contact information for the project manager at the lead agency.

Response:

The Sycamore Landfill Expansion would develop 311.17 acres of previously undisturbed land. Attachment A includes the link to the EIR and agency contact information.

The Fanita Ranch, which is a 1,400-unit residential project in the City of Santee, would develop approximately 2,622.1 acres of previously undisturbed land. Attachment A includes the link to the EIR and agency contact information.

The Castlerock Residential Project, which would build approximately 430 single family residential units, would develop approximately 192.19 acres of previously undisturbed land. Attachment A includes the link to the EIR and agency contact information.

The Mission Trails Regional Park (MTRP) Master Plan Update applies to the entire MTRP, all of which is undisturbed land. As the environmental review is not complete for this project, the requested information cannot be provided. According to the Mission Trails Regional Park Citizens' Advisory Committee, a draft EIR should be ready in April or May of 2013 (see Attachment A). Contact information is included in Attachment A.

The Military Family Housing-MCAS Miramar would develop 341.7 acres of previously undisturbed land. Attachment A includes the link to the Supplemental EA and agency contact information.

The City of Santee General Plan 2020 states that within Santee, 2,951 acres are vacant developable, but the total acreage to be developed is unknown. Attachment A includes the link to the General Plan and agency contact information.

The Treviso Condominium Project and Erma Road Apartments (formerly known as Scripps Wisteria), are sited on previously disturbed land.

No information could be found for the SR-52 Widening, 20g - turbine/peaker, Cabrillo Power II, LLC 20g - turbine/peaker (7), Cabrillo Power II, LLC 20g - turbine/peaker, 8a - Concrete Batch Plant, and San Vicente Pump Station 7a - rock crusher.

The River Bend, formerly known as Shawnee/CG7600 project, Master Plan Redevelopment Project, would develop approximately 0.5 acre of previously undisturbed land.

The Grantville Master Plan would develop approximately 970 acres of previously undisturbed land.

TECHNICAL AREA AIR QUALITY:

83. Data Request: For consideration of cumulative impacts in the area of Air Quality, please identify which projects on the populated Master Project List have emission sources and identify the source category for each.

Response:

Per the response to DR #77, no stationary sources are listed on the Master Project List (Attachment A). Per the response to DR #84 and #85, only one source is listed on the Master Project List, i.e., SLF, for purposes of air quality analysis. SLF is an industrial source comprised of the active and inactive portions of the landfill, mobile landfill equipment, landfill gas collection system, landfill gas flares, and landfill gas-fired combustion turbines used for electrical power production.

84. Data Request: Please identify whether or not the Sycamore Landfill is operating at full capacity under their current permit or whether it has capacity to increase its waste acceptance rate under the current permits. If the landfill has unused, permitted capacity then please quantify that capacity.

Response:

Pursuant to the document references below, the SLF had an original design capacity of 40.2 million cubic yards (mcy). The original design capacity was revised upward to approximately 71 mcy in 2009. The expansion project would allow and create additional capacity up to 153 mcy, would be achieved by implementing a series of inter-related modern landfill design and construction techniques that would incorporate additional excavation, additional fill between the currently approved landfill footprint areas, a 167-foot vertical expansion that would increase the maximum height of the final grade from 883 feet above mean sea level (amsl) to 1,050 feet amsl. Daily permitted tonnage of MSW, under the expansion plan, would be increased from the existing permitted level of 3,965 tons per day (tpd) up to 11,450 tpd at closure. Data presented in the RDEIR (Section 11.4.1) indicates that the landfill has used approximately 28.8 mcy of its original 40.2 mcy current capacity as of February 2011 (29 percent capacity remaining). Using the 71 mcy value as compared to the 28.8 mcy value indicates the landfill has used approximately 41 percent of its revised capacity as of February 2011 (59 percent capacity remaining). Under the "no project" alternative, the landfill would close in 2031. Based on the data reviewed and additional data supplied in Response 85b, the Applicant believes the landfill is operating at or near its waste permit acceptance limit of 3,965 tpd.

References:

1. *Revised DEIR (RDEIR) and Appendices, Sycamore Landfill Master Plan Expansion, Project #5617, SCH #2003041057, City of San Diego, Development Services Department, May 2012.*
2. *Sycamore Landfill Master Plan Expansion Public Notice, City of San Diego, Project #5617, Community Planning Group, I.O. 23421084, November 2010.*

85. Data Request: After researching and responding to staff's data requests above, if applicant does not identify any additional projects with emission sources (beyond those listed applicant's data response, dated May 20, 2012) then:

a. please submit the results of a cumulative air quality impact analysis using current emission sources and levels from both the Sycamore Landfill and the associated cogeneration facility, operating at current or historical levels;

Response:

The landfill has been operating continuously since the mid-1960s, and emissions from both stationary, mobile, and fugitive sources on the landfill site, as well as mobile emissions associated with waste hauling to and from the landfill site, have been contributing to background air quality values over this period of time. The Applicant has established the most current background as an integral part of its impact modeling evaluation, using data from both EPA and CARB, for a number of monitoring sites in the project regional area. Since the applicant has already provided, and is currently updating, its impact assessment using current background values coupled with potential emissions from the proposed project, such an assessment would in reality "double count" the emissions from the landfill, i.e., the existing emissions are included in the background air quality values, which include historical actual emissions as well as current emissions. Modeling the landfill emissions would essentially add these emissions again to background, which would result in an over-statement of impacts.

Notwithstanding the above, the Applicant has committed to perform an assessment of the landfill sources and the QBPP sources to establish the potential impacts from each separate facility, as well as the potential impact overlaps, without the inclusion of the background values. This analysis will be submitted upon completion.

b. please also submit the results of a second air model run which assumes the Sycamore Landfill operating at maximum permit levels, if those permit levels would allow greater acceptance rates (increased operating levels) than the assumptions used in the model run conducted in response to data request #85(a), and

Response:

Based on the Applicant's review of both the current landfill permit as well as the APCD permits to operate for the various landfill handling and processing systems on site, we note the following:

1. The landfill is currently permitted to accept waste at a maximum daily rate of 3,965 tons MSW per day per the current Solid Waste Facility Permit (SWFP). We are not aware of any new or modified landfill permit(s) that have been issued as a result of the expansion plan that would increase this daily rate, and we do not believe that any revised SWFPs will be issued addressing daily waste acceptance increases until the Revised Draft EIR (May 2012) has undergone rigorous review and is certified by the lead agency.
2. As we state in the DR #84 response above, the current landfill has a permitted capacity of 71 mcy, and the expansion plan seeks to increase this amount to 153 mcy. But, we note that the current APCD permit for the facility (APCD2008-PTO-

971111-V2) still limits the landfill capacity to the original 40.2 mcy, as well as a height limit of 883 feet amsl. This PTO also limits a number of landfill gas operating conditions which we believe are tied to the current permitted waste acceptance rates stated above.

3. In addition, the Applicant notes that although the SWFP, as revised in September 2009 allows the daily waste rate to increase to 3,965 tpd, this same permit does not allow an increase in the daily number of waste haul vehicles allowed. And in addition, the daily tonnage limits in the SWFP remain subject to more restrictive annual limits in the Franchise Agreement (per Appendix B in the RDEIR). Secondly, Table 5.2-1 (RDEIR) indicates the existing baseline tonnage (MSW) at 3,965 tpd, while the text on page 5.6-25 assumes the landfill waste acceptance rate at 5,000 tpd for years 2012-2014, which would indicate a potential violation of the SWFP if the 5,000 tpd is a real value for operations year 2012.
4. Lastly, the current APCD PTOs for the turbines and flares contain emissions and operational limits that are not tied to the landfill acceptance rates, and as such the emissions from these systems are fixed (based on PTE values), and will not increase even if waste acceptance rates increase. As noted in Response 85c, no permit applications have been filed with the APCD as of the date of this submittal, which requests the siting approval for any new source or modifications to existing sources.

As such, the Applicant believes that the current waste acceptance rate of 3,965 tpd is the limit enforceable on the landfill, and that the landfill is presently operating very close to this limit. Therefore, since the current facility permit levels would not allow greater acceptance rates or increased operating levels, there is no basis for a cumulative analysis.

c. please also submit the results of an air model run which assumes the Sycamore Landfill operating at maximum permit levels, as proposed in Sycamore' application to expand the landfill.

Response:

The Applicant believes that, (1) the requested analysis cannot be performed without a significant amount of speculation, (2) the requested analysis seeks information that is not reasonably available to the applicant, and (3) the requested information cannot be reasonably developed by the Applicant to substantiate a meaningful cumulative analysis. Our reasons for the above are as follows:

1. The existing landfill gas recovery system and flares at the landfill are owned by the landfill, while the existing turbines are apparently owned by Gas Recovery Systems, and the 1200 hp diesel engine powering the "exempt" tub grinder is owned by Recycle X, LLC.
2. None of the entities associated with, or operating equipment at the landfill, have filed applications with the air district for any new or modified equipment permits as of the date of this submittal which address any proposed expansion at SLF with respect to landfill gas (LFG) collection or combustion systems. Based on the Applicants review of the RDEIR and the current and future LFG generation rates, the need for filing such applications for new or modified combustion systems subject to the APCD permitting rules, would not, in our opinion, be required until the 2018-2020 time frame.

3. The Applicant is assuming that there is a contractual relationship between the landfill and the turbine owner (Gas Recovery Systems) with respect to current LFG collection and use for power generation. Whether or not such a contract would be extended or offered to other outside end users to cover the proposed increase in LFG resulting from the expansion project, is not known. This problem is acknowledged in the RDEIR (Section 6.2.1.2). Based on discussions with CEC staff, the Applicant is aware that, informally, the LFG cogeneration operator has the "first right of refusal" for future gas availability, and that they do plan to exercise this right.
4. The landfill owner/operator has not indicated what, if any, plans it has to add to or modify the existing gas collection and destruction system (flares), nor has the turbine operator indicated what plans they are anticipating with respect to new or modified equipment, should the increased LFG become available to them for use. The Applicant notes the following with respect to the current LFG systems on site:
 - a. The current LFG heat rate capacity of the existing systems is 179.6 mmbtu/hr (flares plus turbines).
 - b. Using a default LFG heat content value of 500 btu/scf yields a process handling capability of 5,987 scfm.
 - c. Using a more realistic value of LFG heat content of 340 btu/scf (Ref 3 below), yields a process handling capability of 8,804 scfm.
 - d. According to reference 1 in response DR #84 above, the landfill gas collection system (at 90 percent collection efficiency) is currently delivering 3339 scfm. Therefore the current LFG combustion systems have more handling capacity at present than LFG being generated at the landfill. Furthermore, data presented in reference 1 indicates that the current equipment capacity will not be reached until 2018 at the earliest, and most likely not until 2023-2024 (assuming the average LFG heat content value of 340 btu/scf). Per reference 1, the stated existing capacity of the LFG combustion equipment is 6350 scfm. Using this value, which incorporates the APCD PTO limits on the flares of 1,800 scfm each, would place the need for any new or modified systems into the 2019 timeframe.
 - e. Based on items a through d above, there is no reason for the landfill owner or the LFG turbine owners to propose new equipment or modifications at this time. Given the reasonable assumption that the design and permitting process for new equipment or modifications would be approximately 1.5 years, and a construction period of 1.5 years, the need to start the permitting process would not occur until 2015 at the earliest and most likely not until 2018-2020.
5. Based on the fact that the Applicant cannot identify the entity that will actually be processing the increase in LFG due to the expansion, or how the LFG will be processed, i.e., flared, or burned for heat recovery and/or power production in boilers, ICEs, or simple or combined cycle turbines, we cannot at this time make reasonable assumptions as to the future operations and emissions at the landfill from such equipment.
6. Per number 5 above, the Applicant cannot make reasonable assumptions on future equipment locations within the landfill, stack heights, stack flow rates, stack temperatures, and expected emissions from future LFG systems.
7. The Applicant notes that the RDEIR, Table 5.6-5 (Ref 1), presents emissions for the existing turbines and flares which are not consistent with the current PTE values in the permits to operate. These values may be based on district or operator supplied source test data, or sources such AP-42, etc. Table 5.6-5 is

titled “Maximum Existing Landfill Emissions”, but the emissions (for the turbines and flares) are clearly not the maximum values based upon the permit-to-operate values (based on PTE). The Applicant could not rely upon the RDEIR values in any scale-up of emissions for future years, but rather would have to rely upon the new equipment or systems PTE values for the future cumulative analysis. To our knowledge, the PTE cannot be calculated for equipment that has yet to be specified by either the landfill operator or the private contractors on site, and a scale-up of emissions based on current source testing or AP-42 values would most assuredly incorrectly estimate future PTE resulting in an incorrect estimate of future cumulative impacts. Based on the foregoing, the Applicant believes that the emissions as presented in the RDEIR cannot be used to characterize current or future potential emissions from existing or potential LFG combustion equipment.

In conclusion, the Applicant cannot at this time, prepare a cumulative analysis that incorporates the SLF when we do not know, and cannot reasonably estimate, (1) the types of LFG combustion equipment or systems to be used in the future, (2) the operational scenarios for future LFG systems, (3) the future emissions signatures and profiles of the unknown and unspecified LFG systems, (4) the locations of the future systems on the landfill site, and (5) the physical stack parameters of the unknown and unspecified LFG combustion systems. It should be noted that this situation is also addressed in the RDEIR (Section 6.2.1.2).

References:

3. *Emissions of Criteria and Hazardous Air Pollutants from Landfill Gas Flares, R. Booth, RTP Environmental Associates Inc., January 1998.*

TECHNICAL AREA WORKER SAFETY AND FIRE PROTECTION:

86. Data Request: Please provide a Fire and Emergency Services Risk Assessment and a Fire Protection and Emergency Services Needs Assessment for the construction and operation of the project that provides an objective estimate of both equipment and staffing shortfalls (if any) and the associated recommended mitigations (if any) that would be required by SDFRD to maintain adequate level of readiness to respond to the public.

The Fire and Emergency Services Risk Assessment and a Fire Protection and Emergency Services Needs Assessment should take into account the guidance provided by NFPA 1710: Standard for the Organization and Deployment of Fire Suppression Operations, Emergency Medical Operations, and Special Operations to the Public by Career Fire Departments and by NFPA 551: Guide for the Evaluation of Fire Risk Assessments. The Fire Protection and Emergency Services Needs Assessment should address emergency fire and medical response and equipment, staffing, and location needs while the Risk Assessment should be used to establish the risk (chances) of significant impacts occurring. The Fire Protection and Emergency Services Needs Assessment and Risk Assessment should evaluate the following: (a) the risk of impact on the local population that could result from potential unmitigated impacts on local fire protection and emergency services (i.e. “drawdown” of emergency response resources, extended response times, etc.) and (b) recommend an amount of funding that should be

provided and used to mitigate any identified impacts on local fire protection and emergency medical response services.

Response:

Cogentrix will schedule a meeting with Doug Perry of the City of San Diego Fire Department the week of September 17, 2012, to discuss possible mitigation for LORS compliance. Cogentrix will also attempt to meet with the Santee Fire Chief during that same time frame. Cogentrix has requested proposals from qualified consultants for the preparation of a fire needs assessment.

ATTACHMENT A:

MASTER PROJECT LIST Past, Present, and Reasonably Foreseeable Projects												
#	Project Name	Project Type (e.g., office, residential, industrial)	Location (Street Address or APN)	Status (i.e., Existing, Planned, Under Construction)	Expected or Actual Construction Start Date / Duration	Distance from QBG (miles)	Traffic Study Available	Zoned Open Space	Propose BLA to MHPA	Total Acreage on Undisturbed Lands	URL (link) to Source Data if Available	Point of Contact for Lead Agency
1	Sycamore Landfill Expansion	Industrial	8514 Mast Boulevard Santee, CA 92071	Existing; proposed expansion	Unknown expected actual construction date. Construction duration is estimated to be approximately 3 years from time of approval by all jurisdictional agencies, including California Public Utilities Commission (CPUC).	0.52	Yes	Yes	No	311.17	http://www.cegmap.com/search.php?mode=view&action=view&id=1775 Note: this is the Draft EIR. The revised EIR is no longer available on the City's website.	E. Shearer-Nguyen, Environmental Planner City of San Diego Development Services Department
2	Fanita Ranch	Residential	374-030-02 374-050-02 374-060-01 376-010-06 376-020-03 376-030-01 378-020-46 378-020-50 378-020-54 378-030-08 378-381-49 378-382-58 378-391-59 380-031-08 380-031-18 380-040-43 380-040-44 380-730-22 380-730-23	Planned	Unknown	1.83	Yes	No	No	2,622.1	Final EIR at ftp://ecity.ci.santee.ca.us/Fanita%20Ranch%20EIR/ Revised EIR at http://www.ci.santee.ca.us/index.aspx?recordid=132&page=9	Kevin Mallory, Principal Planner, City of Santee Development Services Department
3	Castlerock Residential Project	Residential	203.64 acre project site located in San Diego on the north side of Mast Blvd. between Medina Dr. and West Hills Pkwy., adjacent to the City of Santee boundary.	Planned	Unknown	0.65	Yes	No	Yes	192.19	Annexation Scenario involved the development of 430 units (283 single-family detached homes and 147 single-family detached units clustered on common lots). No Annexation Scenario involves the development of 422 units (282 single-family detached homes and 140 single-family detached units clustered on common lots). Draft EIR at http://clerkdoc.sannet.gov/Website/publicnotice/pubnotceqa.html	Martha Blake, Environmental Planner, City of San Diego Development Services Department
4	Mission Trails Regional Park (MTRP) Master Plan Update	Recreational	Mission Trails Regional Park	Existing; planned modifications	Unknown	0.30	Unknown	Yes	No	Unknown	The MTRP Master Plan Update is in process. Public workshops were held in 2011 and the EIR is currently being prepared (see http://www.mtrp.org/master_plan.asp). Per meeting minutes from the Mission Trails Regional Park Citizens' Advisory Committee Minutes of the Meeting of July 3, 2012, "If progress continues, a draft EIR should be ready in April or May of [2013]...in [July 2013] we may be ready to go forward with final approval." (see http://www.mtrp.org/assets/files/cac_files/204465_246544.pdf).	Jeff Harkness, Park Designer, City of San Diego Development Services Department

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5	Military Family Housing-MCAS Miramar	Residential	356 acres of proposed Military Family Housing at MCAS Miramar	May be currently under construction, but construction status is unknown. SEA states "Mass grading would start in 2010 and building construction would commence in 2011 with an estimated completion date of 2017."	Unknown	2.11	Unknown	No	No	246	Supplemental EA available at http://www.miramar.usmc.mil/documents/SEA_Draft.pdf	Mr. William Moog Environmental Management Officer MCAS Miramar P.O. Box 452001 Building 6317 San Diego, CA 92145-2001 Phone: (858)577-1108, Fax: (858) 577-4200
6	City of Santee General Plan 2020	Various	Various proposed projects, Carlton Oaks Country Club, residential projects (e.g., Fanita Ranch), transportation/circulation projects	Planned	Unknown	Various	Unknown	Unknown	Unknown	2,951 acres are vacant developable, but the total acreage to be developed is unknown	ftp://ecity.ci.santee.ca.us/PlanDocs/SanteeGP2020.pdf	Douglas Williford City of Santee 619 258-4100x173 10601 Magnolia Avenue Santee, CA 92071
7	Treviso Condominium Project	Residential	7908 Mission Gorge Road	Unknown	Unknown	1.38	Unknown	Unknown	Unknown	0.0 (previously disturbed land)	As stated in the Military Family Housing-MCAS Miramar Supplemental EA (http://www.miramar.usmc.mil/documents/SEA_Draft.pdf), "The proposed Treviso development would construct a 186-unit condominium development at 7908 Mission Gorge Road. The project would be constructed on an 8.56 acre site containing an abandoned Kmart store. The California Environmental Quality Act Negative Declaration issued for the project by the Santee City Council on November 19, 2003 found that the project would not result in any significant impacts." However, this information could not be independently verified.	Unknown
8	SR-52 Widening	Transportation	SR 52 from I-15 east to SR 67	Existing, modifications completed	Construction completed in 2011	0.25	Unknown	Unknown	Unknown	Unknown	Environmental documentation for this project cannot be found on the web. General information can be found at: http://www.keepsandiegomoving.com/SR-52-Corridor/SR52-intro.aspx http://www.dot.ca.gov/dist11/news/2011/55.htm http://www.dot.ca.gov/dist11/departments/planning/pdfs/tcs/2010_SR_52TCS.pdf	Ron Caraet, Caltrans (619) 220-5391 Ron.Caraet@dot.ca.gov
9	20g turbine/peaker	Unknown	800 W Main St, El Cajon, CA	Existing	Project is operational	5.03	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown
10	Cabrillo Power II, LLC 20g - turbine/peaker	Industrial	5460 Overland Ave, San Diego, CA	Existing	Project is operational	5.93	Unknown	Unknown	Unknown	Unknown	http://www.sdcounty.ca.gov/cob/docs/060712_APCD_Statement_of_Proceedings.pdf	Unknown

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11	Forrester Creek Industrial Park Improvement Project	Business Park	APN: 38719006 Northwest corner of Weld Blvd and Cuyamaca Street, El Cajon, CA	Pending Approval	Unknown	2.91	Yes	No	No	Unknown	The next business park to be developed on County airports owned land is Forrester Creek Industrial Park. The development will be located on the northwest corner of Weld Blvd and Cuyamaca St. in El Cajon. The development is planned in three phases and when fully built will include four buildings with over 440,000 sq ft of office, light industrial and warehouse space. http://www.sdcounty.ca.gov/dpw/airports/bizparks.html	Barbara Ramirez, Principal Planner, City of El Cajon
12	Santee Carwash Plaza	Retail, Office, Restaurant	10055 Mission Gorge Road, Santee, CA	Planned	Unknown	3.07	Unknown	No	No	None	A 4,000 S.F. self-serve car wash, one-story 3,200 S.F. restaurant, and a two-story building at 5,000 S.F.	Kevin Mallory, Principal Planner, City of Santee Development Services Department.
13	Las Colinas Detention Center Expansion	Detention Center	9000 Cottonwood Avenue, Santee, CA 92701	Planned	Spring 2012	3.29	Yes	No	No	19.6	The County of San Diego is expanding the Las Colinas Detention Center. http://www.co.sandiego.ca.us/dpw/environment/lascalinasair.html http://www.co.sandiego.ca.us/dpw/docs/environmentpdf/LCDF/RDEIR_No_v2008.pdf	Project Manager Andrew Bohnert of the San Diego County's department of General Services.
14	In-N-Out Restaurant	Restaurant	9412 Gorge Road, Santee, CA	Planned	Unknown	3.62	Unknown	No	No	Unknown	3750 S.F. in-n-out drive through fast food restaurant in the parking lot of Kohl's.	Kevin Mallory, Principal Planner, City of Santee Development Services Department
15	Chik-Fil-A Restaurant	Restaurant	9412 Mission Gorge Road, Santee, CA	Planned	Unknown	2.18	Unknown	No	No	Unknown	CUP for a 4,453 S.F. drive through Chick-Fil-A fast food restaurant in the parking lot of Lowes.	Kevin Mallory, Principal Planner, City of Santee Development Services Department
16	Bunnybears Day Nursery	Day Nursery	6199 Howell Drive, La Mesa, CA	Planned	Unknown	4.54	Unknown	No	No	Unknown	Unavailable	Sylvia Thompson, Planner, City of La Mesa
17	Park Station at the Crossroads of La Mesa Mixed Use, Amendment to Specific Plan,)	Mixed Use	4949 Baltimore Drive; 4999 Baltimore Dr., 8090 University Ave., La Mesa, CA	Unknown	Notice of Preparation (NOP) for an EIR was submitted to the State Clearinghouse in 2009.	5.69	Yes	No	No	Unknown	The proposed mixed-use project would include retail shops and restaurants, a variety of residential units, office space, a possible hotel, sustainable design features (such as water and energy conservation features), a 1.1-acre linear park, and enhanced pedestrian connections with surrounding properties. http://www.cityoflamesa.com/index.aspx?NID=969	Sylvia Thompson, Planner, City of La Mesa
18	Buffalo Wild Wings	Restaurant	254 Town Center Parkway, Santee, CA	Planned	Unknown	2.46	Unknown	No	No	None	New 6,735 S.F. restaurant with 1,246 S.F. outdoor patio, and new parking area.	Kevin Mallory, Principal Planner, City of Santee Development Services Department
19	Creation Museum	Museum	10946 N. Woodside Avenue, Santee, CA	Planned	Unknown	4.07	Unknown	No	No	None	Allow a 3,245 S.F. expansion of existing building to increase the display of the museum.	Kevin Mallory, Principal Planner, City of Santee Development Services Department
20	Las Brisas Living	Residential	8834-8846 Cottonwood Avenue, Santee, CA	Under Construction	Unknown	3.38	Unknown	No	No	None	Construction of 28 residential units.	Kevin Mallory, Principal Planner, City of Santee Development Services Department
21	Wakeland Affordable Housing	Residential	9554 & 9560 Via Zapador, Santee, CA	Under Construction	Unknown	2.60	No	No	No	None	Construction of a 44 unit affordable rental multifamily residential project on a 1.64 gross acre site (1.38 net acres).	Kevin Mallory, Principal Planner, City of Santee Development Services Department
22	Hoist	Light Manufacturing	11900 Community Road, Poway, CA.	Under Construction	Unknown	5.85	No	No	No	Unknown	Construction of a 120,000 S.F. light manufacturing.	Jason Martin, Senior Planner, City of Poway.

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23	Ridgeway	Office	South side of Kirkham Way, west of general Atomics Way, Poway, CA	Planned	Unknown	5.94	Unknown	No	No	Unknown	Construction of 30,000 S.F. of office space.	Jason Martin, Senior Planner, City of Poway.
24	Parkway Summit	Offices	North side of Kirkham Way, east of General Atomics Way, Poway, CA	Planned and going through another phase of entitlements	Unknown	6.16	Unknown	No	No	Unknown	Construction of 600,000 S.F. Office	Jason Martin, Senior Planner, City of Poway.
25	La Mesa Med Partners, LP	Residential Care Facility	5640 Aztec Drive, La Mesa, CA	Unknown	Unknown	4.79	Unknown	No	No	None	Construction of a new residential care facility.	Allyson Kinnard, Associate Planner, City of La Mesa.
26	Riverpark at Mission Gorge	Park	APN: 4641201000 Mission Gorge Road, south of Mission Trails Regional Park, San Diego, CA	Unknown	Unknown	3.66	Unknown	Yes	Yes	Unknown	http://www.sandiego.gov/redevelopment-agency/pdf/grantvillepdf/subareabrivparkfactsheet.pdf	Dan Monroe, Senior Planner, City of San Diego
27	River Bend (formerly known as Shawnee/CG7600) Master Plan Redevelopment Project	Master Plan Redevelopment	6974 Mission Gorge Road, San Diego, CA	Draft EIR was completed in February 2012	Unknown	5.09	Yes	No	No	0.51 acre	http://riverbendsd.com/http://docs.sandiego.gov/citybulletin_publicnotices/CEO_A/Shawnee_EIR_document_02_24_2012.pdf	
28	Village at Zion	Affordable Senior Housing	APN: 672-300-05 Corner of Zion Avenue and Glenroy Street, San Diego, CA	A Community plan amendment from single family residential to multi-family residential was initiated November 201	Unknown	5.01	Unknown	No	No	Unknown	1.21 Acres in the Navajo Community Planning Area1.	Dan Monroe, Senior Planner, City of San Diego, CA
29	Grantville Master Plan	Mixed-Use Development	APN: 4560111100	Master Plan and EIR in process.	Unknown	3.97	Yes	Yes	No	970	http://www.sandiego.gov/redevelopment-agency/grantville.shtml#projectareadocs The more than 1,400 acres that comprise the Project Area consist of three non-contiguous Subareas. <ul style="list-style-type: none"> • Subarea-A: Comprised of the commercial, industrial and retail uses north of I-8 and along both sides of Fairmont Avenue and Mission Gorge Road up to Zion Avenue. • Subarea-B: Contains the office, industrial and mining operations and along Mission Gorge Road from Zion Avenue to Margerum Avenue. • Subarea-C: A shopping center, retail uses and community facilities at and adjacent to the intersection of Zion Avenue and Waring Road. A comprehensive amendment to the NCP to address transit-oriented development opportunities near the	Dan Monroe, Senior Planner, City of San Diego, CA

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30	Village at Scripps	Assisted Living	10455 Pomerado Road, San Diego, CA	Unknown	Unknown	5.21	Unknown	No	No	Unknown	Grantville Trolley Station. New retail and restaurant shopping center.	Dan Monroe, Senior Planner, City of San Diego, CA
31	Fairbrook Estates	Residential	APN: 3202801800 Fairbrook Road/Caminito Magnifico Road, San Diego, CA	Unknown	Unknown	4.58	Unknown	No	No	Unknown	http://docs.sandiego.gov/councildockets_attach/2007/October/10-15-2007%2520Item%2520252.pdf	Dan Monroe, Senior Planner, City of San Diego, CA

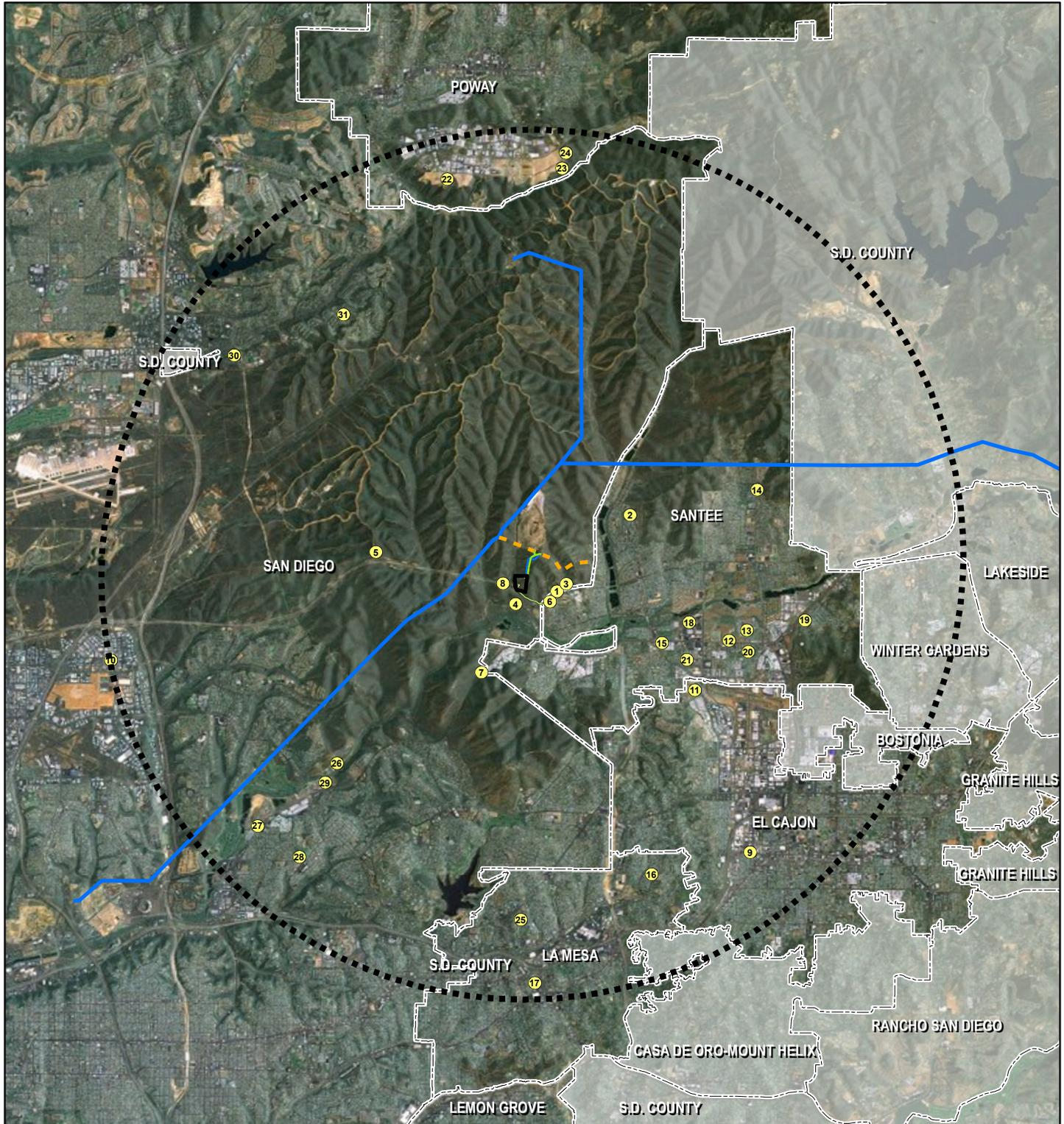
Attachment B

Table DR-77 Cumulative Source Listing (8 mile radius, supplied by SDAPCD) from May 10, 2012 Submittal

RECORD_ID	APPROVE_ATC	ISSUE_ATC	CONSTR_COMPLETE_NOTICE	FEE_SCH AND SOURCE_CATAGORY	EQUIP_ADDRESS	ZIP	Coors, X	Coors, Y
APCD2008-APP-986117	Yes	Yes	Yes	34h - Emer standby engine	12370 Kerran Street,Poway,CA	92064	-	32.939618
APCD2008-APP-986344	Yes	Yes	Yes	34h - Emer standby engine	9431 Dowdy Dr,San Diego,CA	92126	-	32.892312
APCD2008-APP-986406	Yes	Yes	Yes	34h - Emer standby engine	6255 MISSION GORGE RD,SAN DIEGO,CA	92120	-	32.788262
APCD2008-APP-986624	Yes	Yes	Yes	07A - rock crusher	8514 MAST BL,SANTEE,CA	92071	-	32.848674
APCD2008-APP-987491	Yes	Yes	Yes	34A - cogen engine	8514 Mast Blvd,Santee,CA	92071	-	32.848674
APCD2009-APP-000803	Yes	Yes	Yes	34h - Emer standby engine	14170 Kirkham Way,Poway,CA	92064	-	32.93719
APCD2009-APP-000848	Yes	Yes	Yes	34h - Emer standby engine	9343 Wheatlands Rd,Santee,CA	92071	-	32.84552
APCD2009-APP-000881	Yes	Yes	Yes	34h - Emer standby engine	12910 Camino del Valle,Poway,CA	92064	-117.05328	33.013935
APCD2009-APP-000883	Yes	Yes	Yes	34h - Emer standby engine	14415 Lake Poway Rd,Poway,CA	92064	-	33.007298
APCD2009-APP-000884	Yes	Yes	Yes	34h - Emer standby engine	14090 North Ln,Poway,CA	92064	-	32.977762
APCD2009-APP-987936	Yes	Yes	Yes	34h - Emer standby engine	1150 West Bradley Ave,El Cajon,CA	92020	-	32.816858
APCD2009-APP-987936	Yes	Yes	Yes	34h - Emer standby engine	1150 West Bradley Ave,El Cajon,CA	92020	-	32.816858
APCD2009-APP-988099	Yes	Yes	Yes	34C,34H - emer standby engine	12344 SEMILLON BLVD,SAN DIEGO,CA	92131	-	32.911881
APCD2009-APP-988099	Yes	Yes	Yes	34C,34H - emer standby engine	12344 SEMILLON BL,SAN DIEGO,CA	92131	-	32.911881
APCD2009-APP-988155	Yes	Yes	Yes	27A - marine coating application <10 tpy VOC	15405 OLD HY 80,EL CAJON,CA	92021	-	32.855784
APCD2009-APP-989238	Yes	Yes	Yes	34h - Emer standby engine	8917 Complex Drive,San Diego,CA	92123	-	32.829931
APCD2009-APP-989238	Yes	Yes	Yes	34h - Emer standby engine	8917 Complex Drive,San Diego,CA	92123	-	32.829931
APCD2010-APP-000936	Yes	Yes	Yes	34h - Emer standby engine	9305 Lightwave Ave,San Diego,CA	92123	-	32.829163
APCD2010-APP-000937	Yes	Yes	Yes	34h - Emer standby engine	9305 Lightwave Ave,San Diego,CA	92123	-	32.829163
APCD2010-APP-000938	Yes	Yes	Yes	34h - Emer standby engine	9305 Lightwave Ave,San Diego,CA	92123	-	32.829163
APCD2010-APP-000939	Yes	Yes	Yes	34h - Emer standby engine	9305 Lightwave Ave,San Diego,CA	92123	-	32.829163
APCD2010-APP-000940	Yes	Yes	Yes	34h - Emer standby engine	9305 Lightwave Ave,San Diego,CA	92123	-	32.829163
APCD2010-APP-000941	Yes	Yes	Yes	34h - Emer standby engine	9305 Lightwave Ave,San Diego,CA	92123	-	32.829163

APCD2010-APP-000942	Yes	Yes	Yes	34h - Emer standby engine	9305 Lightwave Ave,San Diego,CA	92123	117.129781	32.829163
APCD2010-APP-000943	Yes	Yes	Yes	34h - Emer standby engine	9305 Lightwave Ave,San Diego,CA	92123	117.129781	32.829163
APCD2010-APP-000950	Yes	Yes	Yes	34h - Emer standby engine	8939 Complex Dr,San Diego,CA	92123	117.136107	32.829966
APCD2010-APP-000970	Yes	Yes	Yes	20g - turbine/peaker	800 W Main St,El Cajon,CA	92020	116.972221	32.795019
APCD2010-APP-000971	Yes	Yes	Yes	20g - turbine/peaker	5459 Complex St,San Diego,CA	92123	117.134549	32.833732
APCD2010-APP-000972	Yes	Yes	Yes	20g - turbine/peaker	5459 Complex St,San Diego,CA	92123	117.134549	32.833732
APCD2010-APP-000973	Yes	Yes	Yes	20g - turbine/peaker	5459 Complex St,San Diego,CA	92123	117.134549	32.833732
APCD2010-APP-000974	Yes	Yes	Yes	20g - turbine/peaker	5459 Complex St,San Diego,CA	92123	117.134549	32.833732
APCD2010-APP-000975	Yes	Yes	Yes	20g - turbine/peaker	5460 Overland Ave,San Diego,Ca	92123	117.131062	32.833335
APCD2010-APP-000977	Yes	Yes	Yes	20g - turbine/peaker	5459 Complex St,San Diego,CA	92123	117.134549	32.833732
APCD2010-APP-000978	Yes	Yes	Yes	20g - turbine/peaker	5459 Complex St,San Diego,CA	92123	117.134549	32.833732
APCD2010-APP-000979	Yes	Yes	Yes	20g - turbine/peaker	5459 Complex St,San Diego,CA	92123	117.134549	32.833732
APCD2010-APP-000985	Yes	Yes	Yes	34h - Emer standby engine	14200 Kirkham Way,Poway,Ca	92064	117.046227	32.934981
APCD2010-APP-000989	Yes	Yes	Yes	34h - Emer standby engine	5555 Overland Ave, Bldg 2 MS 0366,San Diego,CA	92123	117.130644	32.833893
APCD2010-APP-001026	Yes	Yes	Yes	34h - Emer standby engine	9970 Carroll Canyon Rd,San Diego,Ca	92131	117.113474	32.903598
APCD2010-APP-001031	Yes	Yes	Yes	34h - Emer standby engine	100 Civic Center Wy,El Cajon,CA	92020	116.962358	32.7964
APCD2010-APP-001163	Yes	Yes	Yes	34h - Emer standby engine	9885 Carroll Canyon Rd,San Diego,CA	92131	117.114447	32.903434
APCD2010-APP-001219	Yes	Yes	Yes	34h - Emer standby engine	2351 Cardinal Ln,San Diego,CA	92123	-117.16001	32.787421
APCD2010-APP-001224	Yes	Yes	Yes	34h - Emer standby engine	46141 Miramar Way,San Diego,Ca	92145	117.128664	32.883713
APCD2010-APP-001229	Yes	Yes	Yes	34h - Emer standby engine	4647 Zion Av,San Diego,CA	92120	-117.09401	32.792943
APCD2010-APP-001232	Yes	Yes	Yes	8a - Concrete Batch Plant	12494 Hwy 67,Lakeside,CA	92040	116.941677	32.906017
APCD2010-APP-001250	Yes	Yes	Yes	7a - rock crusher	12393 1/4 Moreno Avenue,Lakeside,CA	92040	116.930362	32.902144
APCD2010-APP-001446	Yes	Yes	Yes	34h - Emer standby engine	1068 Broadway,El Cajon,CA	92020	-116.94585	32.807728
APCD2010-APP-001476	Yes	Yes	Yes	34h - Emer standby engine	5795 Kearney Villa Rd,San Diego,CA	92123	117.133751	32.838745
APCD2010-APP-001477	Yes	Yes	Yes	34h - Emer standby engine	5795 Kearney Villa Rd,San Diego,CA	92123	117.133751	32.838745
APCD2011-APP-001548	Yes	Yes	Yes	34h - Emer standby engine	14218 1/2 High Valley Rd,Poway,CA	92064	117.023959	32.989491
APCD2011-APP-001550	Yes	Yes	Yes	34h - Emer standby engine	510 E Washington,El Cajon,CA	92020	-116.95624	32.787688

APCD2011-APP-001620	Yes	Yes	Yes	34h - Emer standby engine	750 E Main St,El Cajon,CA	92021	116.953588	32.795019
APCD2011-APP-001622	Yes	Yes	Yes	34h - Emer standby engine	12216 Lakeside Ave,Lakeside,CA	92040	116.928615	32.866495
APCD2011-APP-001631	Yes	Yes	Yes	34h - Emer standby engine	14710 Valley View Road,Poway,CA	92064	117.010724	33.036794
APCD2011-APP-001632	Yes	Yes	Yes	34h - Emer standby engine	18130 Sunset Point Road,Poway,CA	92064	117.010105	32.977762
APCD2011-APP-001847	Yes	Yes	Yes	34h - Emer standby engine	4560 Viewridge Avenue,San Diego,CA	92123	117.123468	32.823867
APCD2011-APP-001907	Yes	Yes	Yes	34h - Emer standby engine	4600 Belleau Av Bldg 226,San Diego,CA	92040	117.185343	32.739346
APCD2011-APP-001916	Yes	Yes	Yes	20e - turbine, stationary, 50-250 mmbtu/hr	5500 CAMPANILE DRIVE,SAN DIEGO,CA	92182	117.071968	32.772321
APCD2011-APP-001916	Yes	Yes	Yes	20e - turbine, stationary, 50-250 mmbtu/hr	5500 Campanile Dr,San Diego,CA	92182	117.071968	32.772321
APCD2011-APP-001917	Yes	Yes	Yes	20e - turbine, stationary, 50-250 mmbtu/hr	5500 CAMPANILE DRIVE,SAN DIEGO,CA	92182	117.071968	32.772321
APCD2011-APP-001917	Yes	Yes	Yes	20e - turbine, stationary, 50-250 mmbtu/hr	5500 Campanile Dr,San Diego,CA	92182	117.071968	32.772321
APCD2011-APP-001919	Yes	Yes	Yes	34h - Emer standby engine	8844 Dallas St,La Mesa,CA	91942	117.006485	32.790973
APCD2008-APP-987499	Yes	Yes	Reissue AC	8a - Concrete Batch Plant	10051 BLACK MOUNTAIN RD,SAN DIEGO,CA	92126	117.123522	32.90075
APCD2008-APP-987499	Yes	Yes	Reissue AC	8a - Concrete Batch Plant	10051 BLACK MOUNTAIN RD,SAN DIEGO,CA	92126	117.123522	32.90075
APCD2009-APP-000809	Yes	n/a	Pending	34h - Emer standby engine	15615 Pomerado Road,Poway,CA	92064	-117.05788	32.995803
APCD2010-APP-001333	Yes	Yes	Pending	34h - Emer standby engine	9305 Lightwave Ave,San Diego,CA	92123	117.129781	32.829163
APCD2010-APP-001334	Yes	Yes	Pending	34h - Emer standby engine	9305 Lightwave Ave,San Diego,CA	92123	117.129781	32.829163
APCD2010-APP-001335	Yes	Yes	Pending	34h - Emer standby engine	9305 Lightwave Ave,San Diego,CA	92123	117.129781	32.829163
APCD2010-APP-001336	Yes	Yes	Pending	34h - Emer standby engine	9305 Lightwave Ave,San Diego,CA	92123	117.129781	32.829163
APCD2010-APP-001337	Yes	Yes	Pending	34h - Emer standby engine	9305 Lightwave Ave,San Diego,CA	92123	117.129781	32.829163
APCD2010-APP-001338	Yes	Yes	Pending	34h - Emer standby engine	9305 Lightwave Ave,San Diego,CA	92123	117.129781	32.829163
APCD2010-APP-001339	Yes	Yes	Pending	34h - Emer standby engine	9305 Lightwave Ave,San Diego,CA	92123	117.129781	32.829163
APCD2010-APP-001340	Yes	Yes	Reissue AC	34h - Emer standby engine	9305 Lightwave Ave,San Diego,CA	92123	117.129781	32.829163
APCD2011-APP-001634	Yes	Yes	Pending	34A - cogen engine	8611 Balboa Av,San Diego,CA	92123	117.142291	32.820804
APCD2011-APP-001635	Yes	Yes	Pending	34A - cogen engine	8611 Balboa Av,San Diego,CA	92123	117.142291	32.820804
APCD2011-APP-001744	Yes	Yes	Pending	34h - Emer standby engine	655 Park Center Dr,Santee,Ca	92071	116.975739	32.851652
APCD2011-APP-001744	Yes	Yes	Pending	34h - Emer standby engine	655 Park Center Dr,Santee,CA	92071	-	32.851652



 6 Mile Buffer

 Project Boundary

 Cumulative Projects

 Proposed SDG&E 138 kV Loop

 Alternative 1 SDG&E 138 kV Loop

 Proposed Gas Lateral

 Existing SDG&E 138 kV T-Line

 Existing SDG&E 230 kV T-Line (2)

 Municipal Boundaries




QUAIL BRUSH GENERATION PROJECT

FIGURE 1

CUMULATIVE PROJECTS WITHIN SIX MILES OF THE QUAIL BRUSH GENERATION PROJECT SITE

0 1 2 4
Miles



TETRA TECH EC, INC.

