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June 22, 2007

BY HAND DELIVERY

Mr. Christopher Meyer
Compliance Manager
California Energy Commission
1516 Ninth Street, MS-200
Sacramento, CA 95814

Re: El Segundo Power Redevelopment Project (00-AFC-14)
Application for a Determination of Compliance and Permit to Construct, Submitted to the South Coast Air Quality Management District

Dear Mr. Meyer:

Pursuant to our teleconference on Thursday, June 21, 2007, please find enclosed herein CD-ROMs, which contain El Segundo Power Redevelopment Project's air modeling data and Application for Determination of Compliance and Permit to Construct submitted to the South Coast Air Quality Management District.

Should you have any questions regarding this submittal, please do not hesitate to call me.

Very truly yours,

Kimberly Hellwig
Paralegal

Enclosures

cc: George Piantka, El Segundo Power II LLC
Tim Hemig, El Segundo Power II LLC
John A. McKinsey, Stoel Rives LLP

Oregon
Washington
California
Utah
Idaho

Portlnd3-1590637.1 0035434-00006

ESPR Amendment
A.Q. Modeling Files
June 20, 2007

Sierra Research, Inc.
1801 J Street
Sacramento, CA 95814
Tel: 916-444-6666

NRG El Segundo Modeling Files
Sierra Research - MPV - June 19, 2007.

All modeling is done in NAD27 coordinates (Zone 11)

One Readme file (Readme1.txt)
Four zipped files:

ISC3_SCREEN3.zip
Nrg1.zip
Coastal.zip
HARP Files.zip

ISC3_SCREEN3.zip

Turbine Screening Files - (NRG18) - 2 files - Turbine screening run, with stack height of 210 ft.
Refined - (NRG3) - 2 files
Startup & Commissioning - (NRG4) - 2 files

Fumigation files

SCR3TIBL.exe	An executable variant of SCREEN3 provided by BAAQMD that allows a more-complete exploration of TIBL factors (ranging from 2 to 6, rather than just the default SCREEN3 TIBL factor = 6. As it turns out, TIBL = 6 is indeed the worst-case for this project.
NRG3&4.OUT	SCR3TIBL output for each Boiler
NRG5&6.OUT	SCR3TIBL output for each Turbine
Fumigation1.xls	Summary spreadsheet for fumigation

ISCST3 Met Data (1 file)
1981 Lennox met data (SCAQMD)

LENNOX.ASC

BPIP input and output files - used for the ISCST3 runs - 3 files
Zipped file named NRG1.zip

NRG1.BPI - input file
NRG1.SUP - output file (long version)
NRG1.PRO - output file (short version)

DEM files used for HARP (Coastal.zip)

Two DEM files for HARP modeling, one used for sure (VENICE.DEM) and one that might have been used RDNDOBCH.DEM)

HARP Modeling Files (HARP Files.zip)

The HARP modeling was done after the refined ISCST3 modeling was done, so there was extensive experience concerning knowledge of the locations of 1-hour and annual maxima.

HARP modeling was done in two steps. The first step (nrg1.isc: ISCST3 input file LENNOX.INP) includes a regular 50 x 50 meter Cartesian grid just large

enough to encompass the project site, the locations of 1-hour maxima (in a residential area of Manhattan Beach), annual maxima (located on refinery land), and the maximum annual residential impact (located near S. Aviation Blvd. & W. 135th St., El Segundo, CA 90245: approximately 479 S. Aviation Blvd.)

Included the first step was project boundary receptors and census block receptors within 2500 meters of the facility.

It became clear that, while the first modeling step was sufficient for most purposes, it was inadequate for calculating cancer burden. The second step (nrg2.isc: ISCST3 input file LENNOX2.INP) models census block receptors within 15000 meters of the facility.

Step 2 file names can be distinguished from Step 1 file names by the suffix in the file name "_2".

For some reason, my installation of HARP did not permit use of the single source toggle switch. Thus, emissions were handled by use of separate emissions files (*.ems), for single sources and combinations of sources:

Source	Source #	Stack #
Boiler 4	4	1
Boiler 3	3	2
Turbine 5	5	3
Turbine 7	6	4

So, sources are listed as:

Src1	Boiler 4
Src2	Boiler 3
Src3	Turbine 5
Src4	Turbine 7
Src12	Boilers
Src34	Turbines
SrcAll	All

File names are as follows:

BPIP Information

BPIP.inp
BPIP.out
BPIP.sum

Summary spreadsheet

summary.xls

Transactions File

export1.tra

1981 Lennox met data (SCAQMD)

LENNOX.ASC

Step 1 HARP Files
LENNOX.ERR
LENNOX.INP
LENNOX.OUT
LENNOX.PLT
LENNOX.RSK
LENNOX.SRC
LENNOX.XOQ
nrg1.isc

Step 2 HARP Files

LENNOX2.ERR
LENNOX2.INP
LENNOX2.OUT
LENNOX2.PLT
LENNOX2.RSK
LENNOX2.SRC
LENNOX2.XOQ
nrg2.isc

Emissions Files

nrg1.ems
nrg1_1.ems
nrg1_12.ems
nrg1_2.ems
nrg1_3.ems
nrg1_34.ems
nrg1_4.ems

Project Site & *.ini files

project.ini
project.sit

Step 2 Cancer Burden output files

Cancer_Population_Exposure_AllSrc_2.txt
Cancer_Population_Exposure_Src12_2.txt
Cancer_Population_Exposure_Src1_2.txt
Cancer_Population_Exposure_Src2_2.txt
Cancer_Population_Exposure_Src34_2.txt
Cancer_Population_Exposure_Src3_2.txt
Cancer_Population_Exposure_Src4_2.txt

Step 1 and Step 2 output files

Rep_Acu_AllRec_AllSrc_AllCh_ByRec_Site.txt
Rep_Acu_AllRec_Src12_AllCh_ByRec_Site.txt
Rep_Acu_AllRec_Src1_AllCh_ByRec_Site.txt
Rep_Acu_AllRec_Src2_AllCh_ByRec_Site.txt
Rep_Acu_AllRec_Src34_AllCh_ByRec_Site.txt
Rep_Acu_AllRec_Src3_AllCh_ByRec_Site.txt
Rep_Acu_AllRec_Src4_AllCh_ByRec_Site.txt
Rep_Can_70yr_Avg_AllRec_AllSrc_AllCh_ByRec_Site_2.txt
Rep_Can_70yr_DerAdj_AllRec_AllSrc_AllCh_ByRec_Site.txt
Rep_Can_70yr_DerAdj_AllRec_AllSrc_AllCh_ByRec_Site_2.txt

Rep_Can_70yr_DerAdj_AllRec_Src12_AllCh_ByRec_Site.txt
Rep_Can_70yr_DerAdj_AllRec_Src12_AllCh_ByRec_Site_2.txt
Rep_Can_70yr_DerAdj_AllRec_Src1_AllCh_ByRec_Site.txt
Rep_Can_70yr_DerAdj_AllRec_Src1_AllCh_ByRec_Site_2.txt
Rep_Can_70yr_DerAdj_AllRec_Src2_AllCh_ByRec_Site.txt
Rep_Can_70yr_DerAdj_AllRec_Src2_AllCh_ByRec_Site_2.txt
Rep_Can_70yr_DerAdj_AllRec_Src34_AllCh_ByRec_Site.txt
Rep_Can_70yr_DerAdj_AllRec_Src34_AllCh_ByRec_Site_2.txt
Rep_Can_70yr_DerAdj_AllRec_Src3_AllCh_ByRec_Site.txt
Rep_Can_70yr_DerAdj_AllRec_Src3_AllCh_ByRec_Site_2.txt
Rep_Can_70yr_DerAdj_AllRec_Src4_AllCh_ByRec_Site.txt
Rep_Can_70yr_DerAdj_AllRec_Src4_AllCh_ByRec_Site_2.txt
Rep_Can_WRK_Avg_AllRec_AllSrc_AllCh_ByRec_Site.txt
Rep_Can_WRK_Avg_AllRec_Src12_AllCh_ByRec_Site.txt
Rep_Can_WRK_Avg_AllRec_Src1_AllCh_ByRec_Site.txt
Rep_Can_WRK_Avg_AllRec_Src2_AllCh_ByRec_Site.txt
Rep_Can_WRK_Avg_AllRec_Src34_AllCh_ByRec_Site.txt
Rep_Can_WRK_Avg_AllRec_Src3_AllCh_ByRec_Site.txt
Rep_Can_WRK_Avg_AllRec_Src4_AllCh_ByRec_Site.txt
Rep_Chr_Res_DerOEH_AllRec_AllSrc_AllCh_ByRec_Site.txt
Rep_Chr_Res_DerOEH_AllRec_Src12_AllCh_ByRec_Site.txt
Rep_Chr_Res_DerOEH_AllRec_Src1_AllCh_ByRec_Site.txt
Rep_Chr_Res_DerOEH_AllRec_Src2_AllCh_ByRec_Site.txt
Rep_Chr_Res_DerOEH_AllRec_Src34_AllCh_ByRec_Site.txt
Rep_Chr_Res_DerOEH_AllRec_Src3_AllCh_ByRec_Site.txt
Rep_Chr_Res_DerOEH_AllRec_Src4_AllCh_ByRec_Site.txt
Rep_Chr_Wrk_PtEst_AllRec_AllSrc_AllCh_ByRec_Site.txt
Rep_Chr_Wrk_PtEst_AllRec_Src12_AllCh_ByRec_Site.txt
Rep_Chr_Wrk_PtEst_AllRec_Src1_AllCh_ByRec_Site.txt
Rep_Chr_Wrk_PtEst_AllRec_Src2_AllCh_ByRec_Site.txt
Rep_Chr_Wrk_PtEst_AllRec_Src34_AllCh_ByRec_Site.txt
Rep_Chr_Wrk_PtEst_AllRec_Src3_AllCh_ByRec_Site.txt
Rep_Chr_Wrk_PtEst_AllRec_Src4_AllCh_ByRec_Site.txt