

Docket Number 06-SPPE-2  
First Round Data Requests  
El Centro Unit 3 Repower Project  
July 2006

**DATA REQUEST #11  
PUBLIC HEALTH**

---

**BACKGROUND**

Health risks due to diesel emissions from vehicles and equipment used in the construction phase of the project should be assessed.

**DATA REQUEST**

11. Please conduct a health risk assessment on diesel emissions from construction vehicles and equipment.

**DATA RESPONSE**

The Applicant did not originally conduct a health risk assessment of diesel emissions from construction vehicles and equipment because of the short-term nature of construction. However, the Applicant has conducted a health risk assessment analysis for the chronic non-cancer health risks from the diesel construction equipment and the chronic risk predicted is 0.03, which is well below the threshold of 1. The Applicant did not calculate the cancer risk from the diesel construction equipment since this risk is calculated over a 70-year period and the construction period for the Project is only 20 months. The details of the health risk assessment are presented in the table below.

**EL CENTRO UNIT 3 REPOWER PROJECT  
CONSTRUCTION HEALTH RISK ASSESSMENT CALCULATIONS  
DIESEL PARTICULATE MATTER**

Maximum annual diesel particulate matter (DPM) concentration predicted with ISCST3	0.14447 $\mu\text{g}/\text{m}^3$
DPM chronic reference exposure level (REL) from OEHHA	5 $\mu\text{g}/\text{m}^3$
DPM chronic Hazard Index (HI)	0.03 $\mu\text{g}/\text{m}^3$

**ASSUMPTIONS:**

1. All  $\text{PM}_{10}$  is assumed to be DPM.
2. Maximum annual  $\text{PM}_{10}$  concentrations estimated regardless of location will be used in calculating the DPM chronic HI.
3. Maximum annual DPM concentration was predicted with ISCST3 during 1992 for the N receptor group

**ISCST3 Modeling Methodology**

1. Meteorological data from Imperial County Airport 1991-95.

Docket Number 06-SPPE-2  
First Round Data Requests  
El Centro Unit 3 Repower Project  
July 2006

**DATA REQUEST #11**  
**PUBLIC HEALTH**

---

2. All model assumptions same as for criteria pollutant construction modeling.

Since the HI is less than 1.0, no adverse chronic health effects from DPM are expected from the construction activities during the ECGS Unit 3 Repower Project.