

4.3 PUBLIC HEALTH

This section provides a public health impact analysis associated with construction emissions for the Modified Project. The public health impact analysis for operation and maintenance of the Modified Project is not provided because with the elimination of the solar thermal technology and the emissions associated with the use of HTF, the consumption of natural gas, and the intensive mirror washing program are no longer present. Therefore, the potential public health impacts associated with emissions during operation and maintenance of the Modified Project are estimated to be a fraction of those of the Approved Project.

However, since the emissions associated with construction activities for the Modified Project are expected to be similar to those evaluated for the Approved Project, a revised health risk analysis was performed for the Modified Project.

4.3.1 Summary of Construction Emission Health Risk Analysis

The screening risk calculation for construction impacts (i.e., diesel equipment particulate matter emissions and the inhalation pathway assumption) is presented in Table 4.3-1. Consistent with the previous project analysis, no sensitive receptors were noted within a 3-mile radius of the plant site. The resulting impacts to public health are less than the applicable significance level of 1 in a million. Thus, during the construction phase of the Modified Project, no impacts to public health are expected to occur.

**TABLE 4.3-1
CONSTRUCTION RISK SUMMARY**

Parameter	MIR Receptor #1	MIR Receptor #2
Receptor Location	Fence line	Nearest Residential
MIR Receptor Coordinates (UTM meters-NAD83)	705922, 3727306	710535, 3721040
Cancer Risk (per million-6.25 years)	0.69	0.01
Chronic HI	0.007	0.000

The maximum onsite diesel exhaust period emissions (normalized tons/year) were used for risk evaluation purposes.
Maximum annual PM10 combustion source impacts are 0.03605 ug/m³ for the fenceline receptor, and 0.00070 ug/m³ for the nearest residential receptor.

4.3.2 Compliance With LORS

There are no public health related LORS that would be applicable to the Modified Project solely as a result of its conversion to PV technology. Therefore, the Commission Final Decision's conclusion that the BSPP would comply with all public health related LORS would still be applicable.

4.3.3 Conditions of Certification

The Commission Final Decision includes Condition of Certification **PUBLIC HEALTH-1** which applied solely to use the cooling tower. Since the Modified Project will not construct or operate any cooling towers, this Condition of Certification should be deleted.