Technical Support Document for Chapter 9 – Contingency Measures

The contingency measure identified by the State for this SIP includes the emissions reductions from implementing Utah's heavy-duty diesel engine emissions reduction program. Emission reduction calculations for this program are calculated using the EPA's Diesel Emissions Quantifier. Quantifications are run for each project that is awarded under the grant programs.

Eligible projects may include onroad vehicles (short or long haul single or combination trucks, refuse hauler, school bus or transit bus), nonroad equipment (agriculture, construction, ports and airports, railyard, and stationary), and locomotives (line haul, passenger, or switch). Depending on the vehicle or engine group, the quantifier calculates emission reductions based on the following information:

- Vehicle class (4-8) or equipment type
- Quantity
- Baseline engine model year and/or baseline tier
- Baseline fuel type
- Annual fuel gallons used
- Annual miles traveled or annual usage hours
- Horsepower (for nonroad or locomotive)
- Annual idling hours
- Upgrade year
- Remaining life of baseline vehicle or engine

The information is entered and the quantifier displays annual and lifetime short ton emission reduction results for NOx, PM2.5, HC (VOC), CO, CO2, and fuel. The contingency measure chapter calculations for this SIP include averages from actual projects completed between 2015-2017, anticipated projects that are identified and calculated but haven't been administered for 2018-2020, and projected emission reductions based on expected funding.