

Technical Advisory – Emissions Costs and Safety Default Factors Updated

An update to the fixed factors in TREDIS 5 was made to bring the following values in line with the current Benefit-Cost Analysis (BCA) Resource Guide which is a supplement to the 2017 Benefit-Cost Analysis Guidance for Grant Applications:

https://www.transportation.gov/sites/dot.gov/files/docs/mission/office-policy/transportation-policy/284031/benefit-cost-analysis-guidance-2017_0.pdf

As of October 10, 2017 the new values are as follows:

Factor	Previous Value (\$/short ton)	New Value (\$/short ton)
Environmental Costs		
Carbon dioxide (CO ₂)	\$ 43	\$ 43
Volatile Organic Compounds (VOCs)	\$ 1,844	\$ 1,872
Nitrogen oxides (NO _x)	\$ 7,266	\$ 7,377
Particulate matter (PM)	\$ 332,405	\$ 337,459
Sulphur dioxide (SO _x)	\$ 42,947	\$ 43,600

Factor	Previous Value (\$/incident)	New Value (\$/incident)
Safety Costs		
Fatality	\$ 9,600,000	\$ 9,600,000
Personal Injury	\$ 174,030	\$ 174,030
Property Damage	\$ 4,198	\$ 4,252

Notes:

1. This change will affect all new projects created after October 10, 2017. Prior projects will not be affected unless a mode has been changed.