

## 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 2016 Benefit-Cost Analysis Guidance for Grant Applications:

[https://www.transportation.gov/sites/dot.gov/files/docs/BCA%20Resource%20Guide%202016\\_0.pdf](https://www.transportation.gov/sites/dot.gov/files/docs/BCA%20Resource%20Guide%202016_0.pdf)

As of April 12, 2016, the new values are as follows:

Factor	Previous Value (\$/short ton)	New Value (\$/short ton)
<b>Environmental Costs</b>		
Carbon dioxide (CO <sub>2</sub> )	\$ 38.72	\$ 43
Volatile Organic Compounds (VOCs)	\$ 1,842.41	\$ 1,844
Nitrogen oxides (NO <sub>x</sub> )	\$ 7,262.94	\$ 7,266
Particulate matter (PM)	\$ 333,238	\$ 332,405
Sulphur dioxide (SO <sub>x</sub> )	\$ 42,925.20	\$ 42,947

Factor	Previous Value (\$/incident)	New Value (\$/incident)
<b>Safety Costs</b>		
Fatality	\$ 9,400,000	\$ 9,600,000
Personal Injury	\$ 107,458	\$ 174,030
Property Damage	\$ 4,011	\$ 4,198

### Notes:

1. This change will affect all new projects created after April 12, 2016. Prior projects will not be affected unless a mode has been changed.