IMESAFR QRA

- IMESAFR -probabilistic risk assessment tool
- Canadian Explosives Industry and ERD use

- Specifically MPU use at non-quarry/mine.
- Submit a Quantitative Risk Analysis

- Default Probability of Event: 3.08x10⁻⁴
- 3.08 events every 10,000 years
- Impacted only 15% of submitted QRA's
- The other 85% could have proceeded using the default

Canadian Explosives Industry Association Association Canadienne de l'Industrie des Explosifs

IMESAFR is very specific. "Quality" of outcome is equal to "Precision" of input

- Correlation of Explosives & People
 100% vs 5%(pumping hours per year vs people present per year)
 Commercial Storage vs Pumping
 8760 hr/year vs 20 hr/year(5 days @ 4 hours per day)
- Certainty
 People, construction, car counts etc..(certain, somewhat certain, uncertain)
 Guess vs Actual

Possible Exclusion Triggers:

- Built Up Areas(more than x many homes)
- Schools
- Hospitals

Would be forbidden/not considered for QRA