

## **Setting and Administering Acceptable Risk Levels**

**June 30, 2016**

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## **Levels of acceptable risk?**

- Cancer risks
- Non-cancer hazards

## **How to address risks from multiple sources?**

- Risks and hazards from multiple chemicals
- Risks and hazards from multiple emission points
- Risks and hazards from multiple facilities
- Risk and hazards from background/ambient air

# How do other states define acceptable risk?

## **Acceptable Risk**

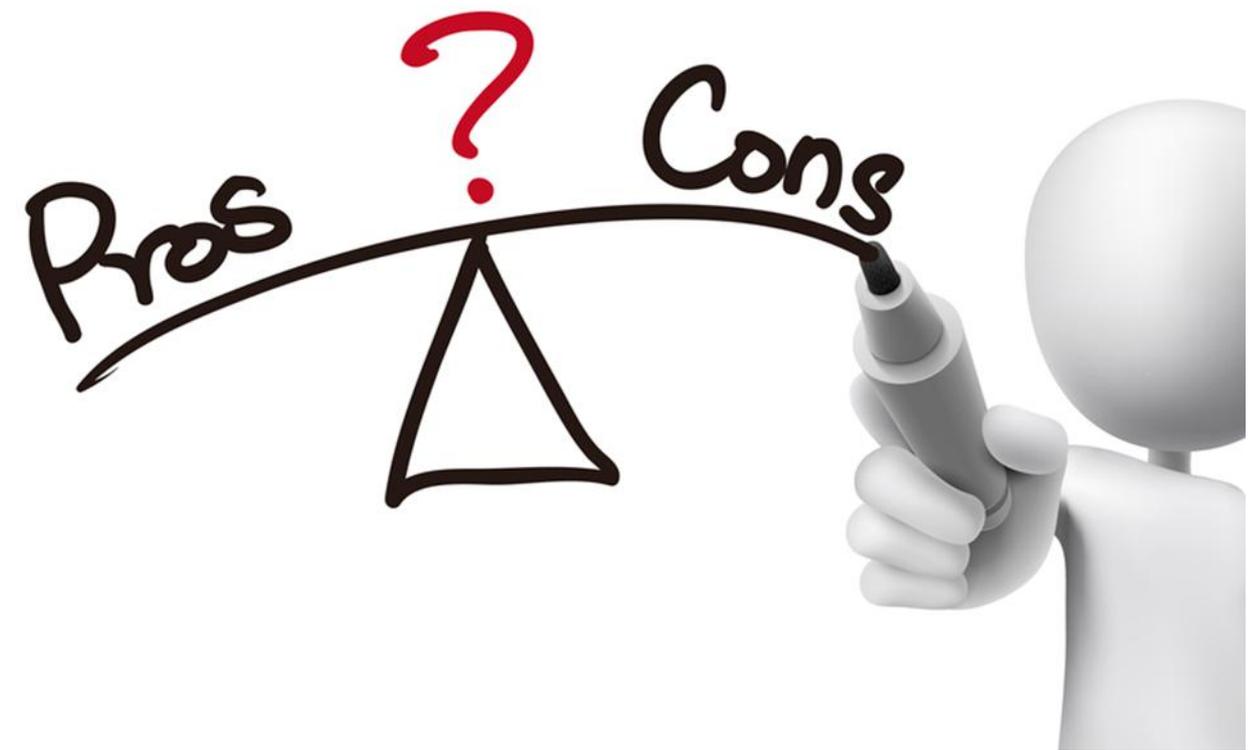
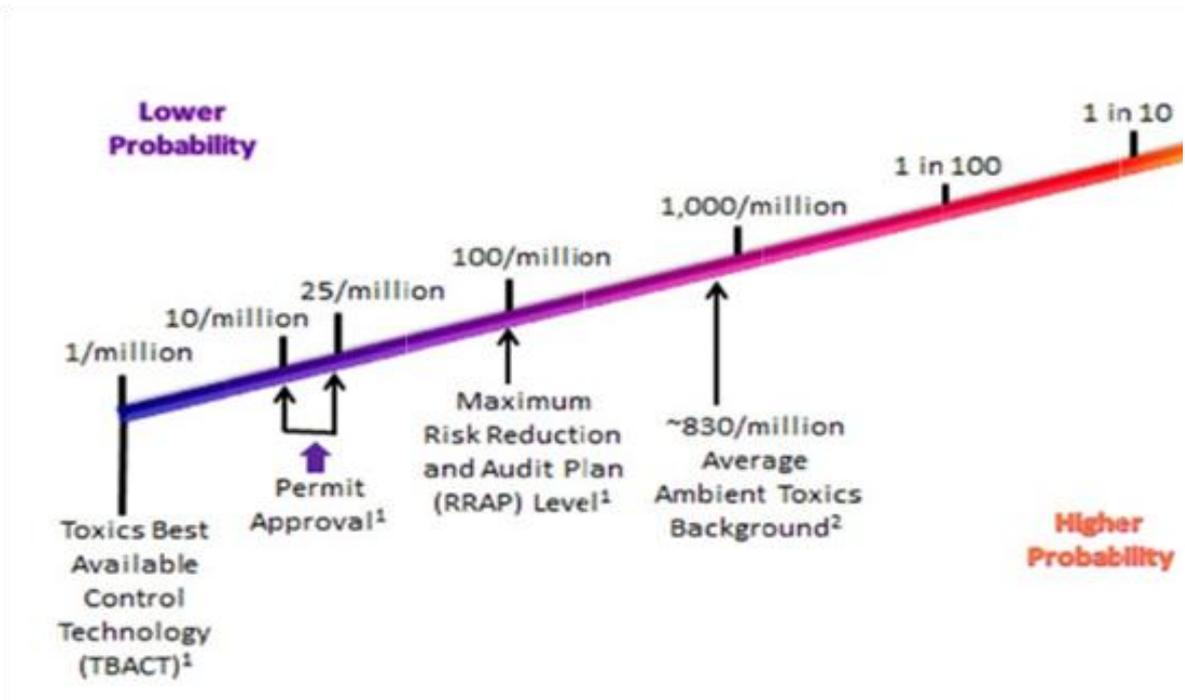
- Cancer: 1 in 1 million to 100 in 1 million depending on screening tier
- Non-cancer: Hazard quotient ranging from 1 to 3 depending on screening tier
- Level of acceptable risk depends on tier of analysis and use of best available technology for air toxics

# Advantages and limitations of acceptable risk levels

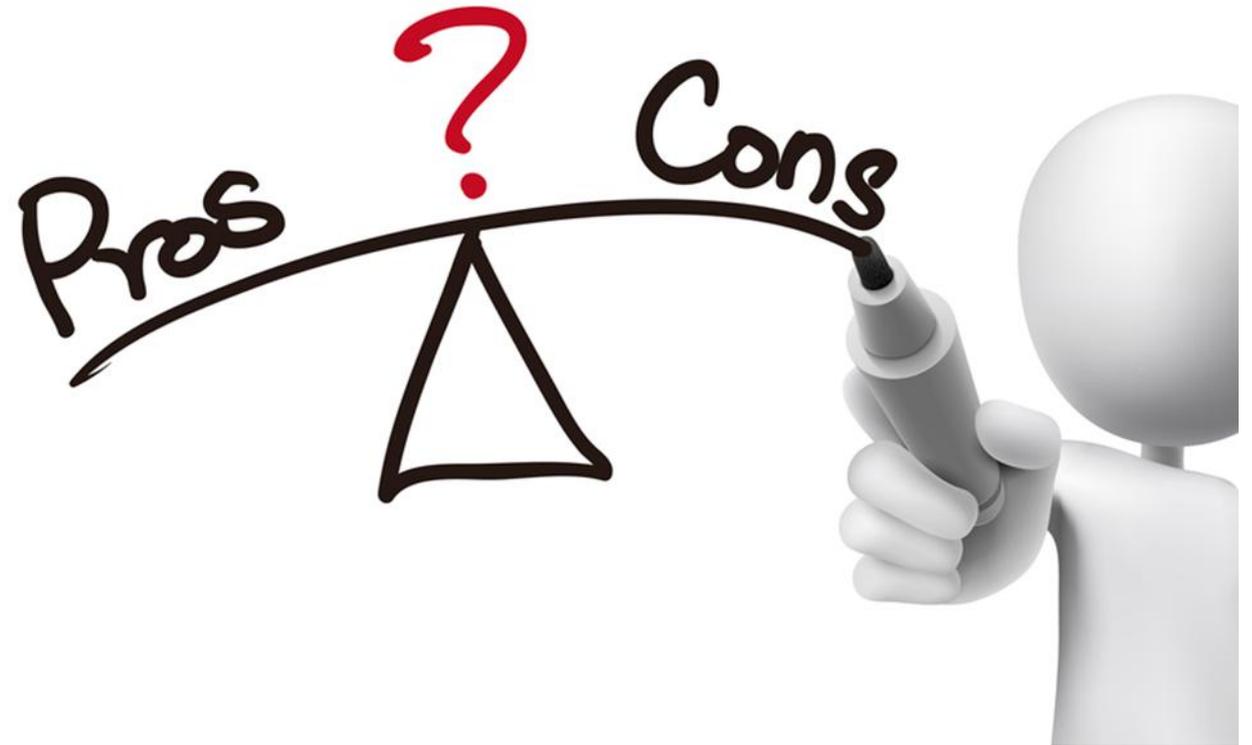
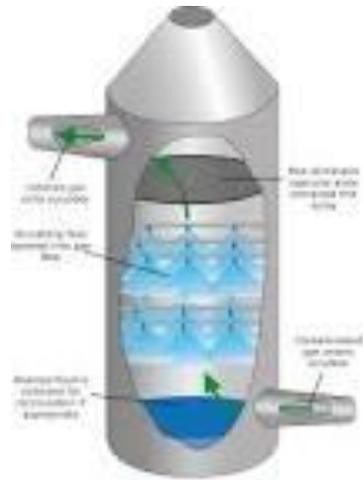
## Considerations

- Flexibility
- Protectiveness of health
- Achievability
- Complexity
- Transparency and consistency for public, state, and regulated facilities

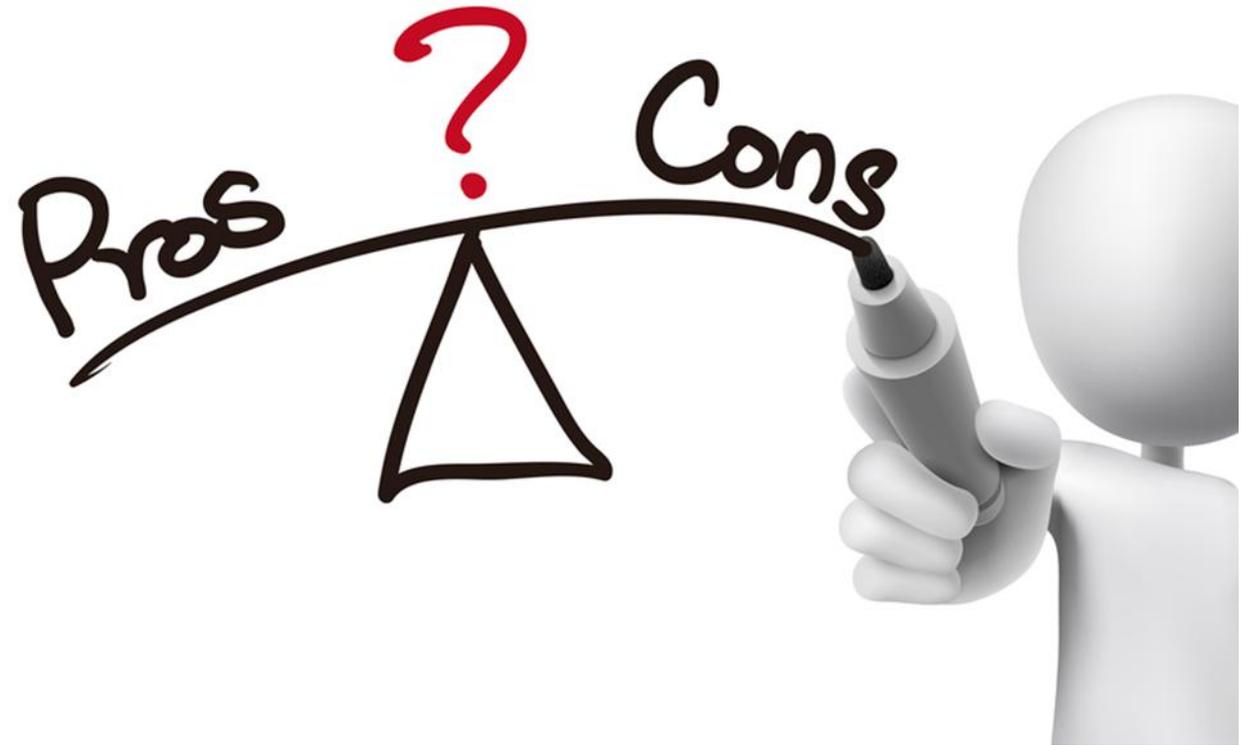
# Pros and Cons of Initial Risk levels from other programs?



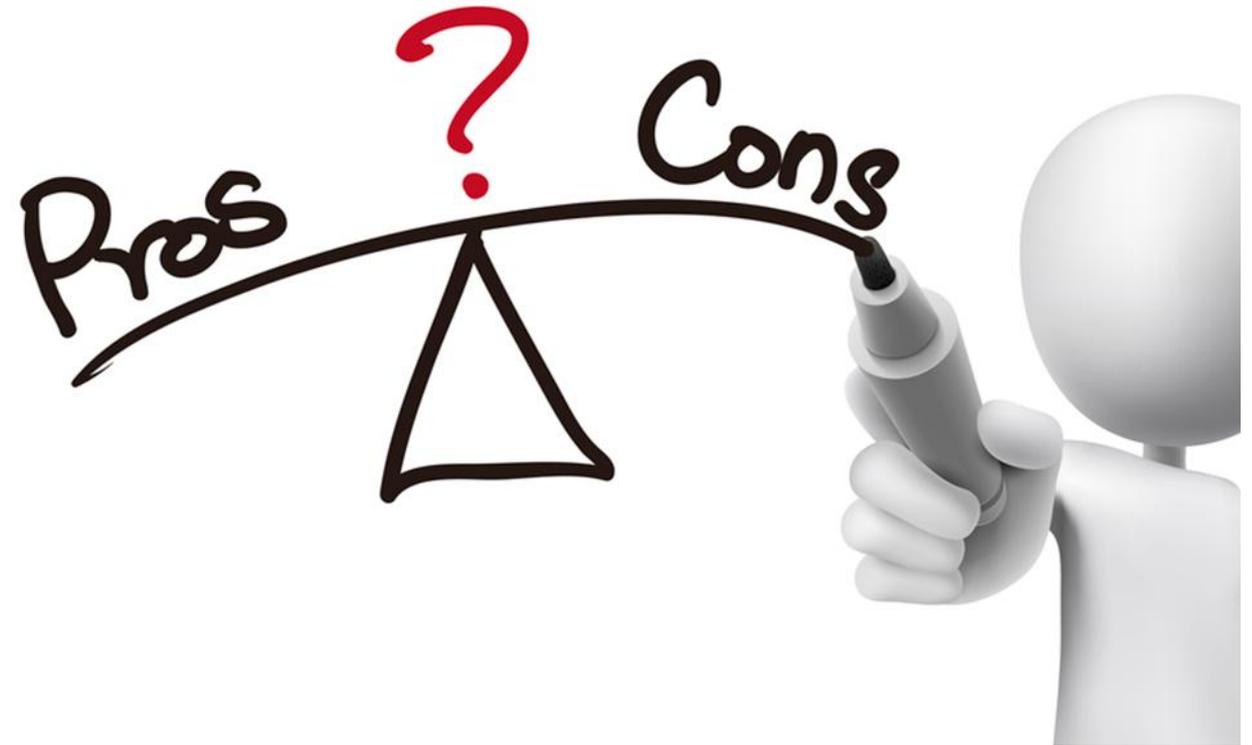
# Pros and Cons of allowing a higher level of risk with T-BACT?



# Pros and Cons of unacceptable risk level (no permit issued)?



# Pros and Cons of different acceptable risk for new versus existing sources?



# Related topics for the July Technical Workgroup Meeting

- Pros and Cons of Assessing Cumulative Risks Related to Multiple Pollutants from a Single Source
- Pros and Cons of Assessing Pollutants Emitted from Multiple Pieces of Equipment within a Single Source?
- Pros and Cons of Assessing Multiple Pollutants from Multiple Sources within an Area?
- Pros and Cons of Including Background/Ambient Concentrations in the Assessment of Risk?
- Pros and Cons of addressing ecological risk or secondary effects such as crop damage?

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## Final thoughts?

- Any last questions?
- Do we need further discussion in July?

