

## Calculus of Negligence: Technical Specifications

1. Functional reformulations of air/atmospheric gases<sup>1</sup>:
  - a. **Praxair ExtendaPak EX 49**: preservative atmosphere for fruit and vegetable packaging and storage
    - i. Composition: 5% Carbon Dioxide; 10% Oxygen; 85% Nitrogen
    - ii. Flow rate: 100 mL/minute
  - b. **MediPure Air USP**: medical grade breathable air
    - i. Composition: 76.5 – 80.5% Nitrogen; 19.5 – 23.5% Oxygen
    - ii. Flow rate: 100 mL/minute
  - c. **Zero Air**: EPA certified calibration of air with <0.01 parts per million hydrocarbons. For standard calibration of testing equipment and EPA compliance.
    - i. Composition: 19.9 – 21.9% Oxygen; H<sub>2</sub>O <2 ppm; CO<sub>2</sub> < 0.3 ppm; CO < 0.05 ppm; Total Hydrocarbons < 0.01 ppm; Remaining balance Nitrogen
    - ii. Flow rate: 100 mL/minute
  - d. **Oxygen-18 Isotope**: isotope of oxygen with 18 baryons per atom (8 protons and 10 neutrons). It is breathable and used for tracking cellular and body metabolism in medical diagnostics and scientific research—either in its gaseous form or as a precursor to fluorodeoxyglucose, used in PET scanning diagnostics. O<sub>2</sub> 18 exists in small concentrations (0.2%) in the atmosphere and it is metabolized by the body in the same way as the more common oxygen 16 isotope.

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<sup>1</sup>Approximate concentration of gases in the Earth's atmosphere:

Nitrogen: 78.08%  
Oxygen: 20.95%  
Argon: 0.93%  
Carbon Dioxide: 0.04%

- i. 97% Oxygen 18 isotope
- ii. Flow rate: 500 mL total dispersed at beginning of exhibition

2. *Layer Adjustment (Terrorism/Catastrophic Insurance Layer)*

- i. Additional coverage layer for acts of terrorism and catastrophic events: \$1,000,000/\$2,000,000
- ii. Policy changes: Does not require the Federal Government to designate and event as a terrorist act for coverage to take effect; increases cap on coverage above TRIA limits; removes exception for nuclear events.
- iii. Active Duration: May 14<sup>th</sup> – June 21<sup>st</sup>, 2015
- iv. Location: 41 Orchard Street, New York New York 10002
- v. See supplemental insurance documentation for additional details and policy language

3. *Layer Adjustment (Accident Probability Adjustment)*

- i. Alterations made to the physical location to increase the probability of an accident while remaining within the scope of existing insurance coverage
- ii. Monetary adjustment to insurance premium: 0
- iii. Actual risk adjustment: > previous assessed risk; < a level of risk requiring reassessment
- iv. Active Duration: May 14<sup>th</sup> – June 21<sup>st</sup>, 2015
- v. Location: 41 Orchard Street, New York New York 10002

4. *Adjustment Residue (Accident Impact Trace)*

- i. Imprint on drywall (upstairs, north wall) of a hexagonal nut cover to an SMC AR-2000 regulator; broken regulator and parts
- ii. Due to a fault in the regulator or a momentary excessive pressure buildup, the hexagonal cover ruptured along its internal threads and was propelled horizontally away from the MediPure USP cylinder until its impact with the wall opposite.
- iii. The time of impact was between 9:00 pm on May 14<sup>th</sup>, 2015 and 11 am on May 15<sup>th</sup>, 2015