

Comparison of DuPont with Fluoropolymer Industry (1999 basis)

	DuPont	FMG ex. DuPont
APFO Use		
Emitted	53%	74%
Water	68%	66%
Air	26%	20%
Land	6%	17%
Reprocessed	23%	2%
Destroyed	12%	1%
In Products	13%	21%

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TWF003469

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CBI REMOVED

EID179093

Chronic Off-Site Exposure Modeling

Purpose: Identify the design parameters required so that the maximum yearly average daily concentration off-site is below the CEG and on-site is less than the

AEL/TLV

- Stack Height
- Stack Height/building height ratio
- Dilution Air flow
- Stack tip velocity

Model used: Industrial Source Complex (ISC v.3)
Modeled using RDU meteorology data; FAY data available this week; model results will be updated.

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TWF003470

EID179094

Preliminary Model Results

- With reasonable design parameters, the maximum yearly average concentration expected to exist off-site, with ZERO ABATEMENT of process vents and fugitive emissions is 10-30% of the CEG of $0.3\mu\text{g}/\text{m}^3$
- All process vent streams will be scrubbed with expected high efficiency (>90%, possibly >99.5%)

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TWF003471

EID179095

C-8 CONSUMPTION AND RECOVERY AT WW

2001 (Forecast), lbs

2000 (Actual), lbs

Total Consumption
Recovered
Destroyed
To Controlled Landfill
To Dispersion Customers
To Environment (Excluding dispersion)

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Project Environmental Strategies

- No discharge of functionalized fluorochemical (F/F) containing wastewater at Fayetteville
 - Process will result in discharge of <200kg/yr from DuPont Chambers Works WWTP
- No discharge of fugitive emissions at ground level
- Air emissions will be minimized
 - All F/F will passed through scrubber with expected high efficiency
- Community exposure potential will be minimized
 - Minimum requirements will be that the yearly average concentration outside of DuPont property will be Community Exposure Guideline (CEG=0.3 μ g/m³)
- Employee exposure potential will be minimized with limited use of PPE.

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TWF003473

EID179097

Comparison of DuPont with Fluoropolymer Industry (1999 basis)

	DuPont	FMG
APFO Use		
Emitted	53%	61%
Water	68%	65%
Air	26%	23%
Land	6%	12%
Reprocessed	23%	14%
Destroyed	12%	7%
In Products	13%	16%

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EID179098