

FC Manufacturing Update

May 26, 2005

- PFOS / PFOA sale / use status
- Medical Surveillance
 - PFOA Biological Limit Value (BLV)
 - PFBS BLV development
- Emissions / Exposure Management Projects
 - Defining level of care across manufacturing
- FC Technology EHS&R Management

**Exhibit
2033**

State of Minnesota v. 3M Co.,
Court File No. 27-CV-10-28862

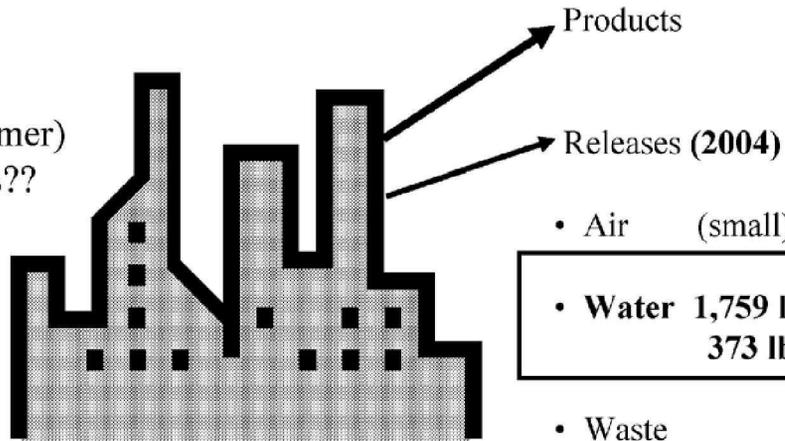
Decatur

PFOS/PFOA Plant Emissions & Monitoring

Activity

*FC-808 (Carbowax Polymer)

* Non-production Sources??



• Air (small)

• **Water** 1,759 lb/yr PFOA
373 lb/yr PFOS

• Waste
- Landfill: unknown
- Incineration: (small)

*Site Investigation & Remediation
*PFOA Exposure Assessment

Decatur

(continued)

- Results
 - City of Decatur water supply – NDs (<0.025 ppb)
 - Tennessee River, downstream
 - PFOA: ~0.2 ppb
 - PFOS: 0.2-0.3 ppb
 - West Morgan/East Lawrence water supply
 - PFOA: 0.1 ppb (raw), 0.09 ppb (finished)
 - PFOS: 0.09 ppb (raw), 0.08 ppb (finished)
 - City of Florence water supply
 - PFOA: 0.057 ppb (raw), 0.055 ppb (finished)
 - PFOS: not analyzed

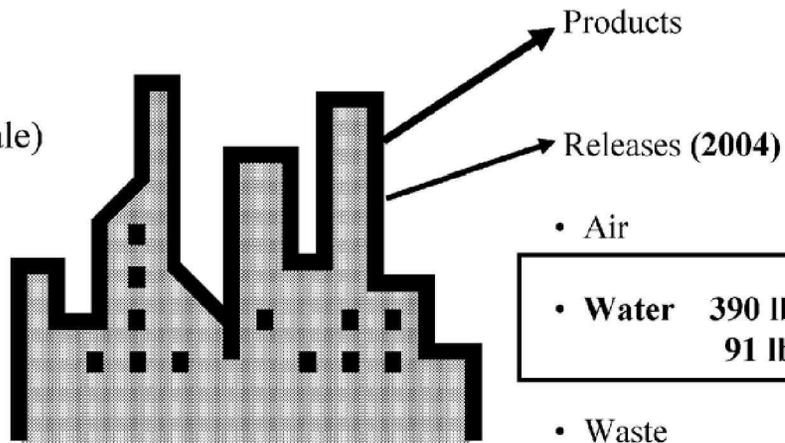
Cottage Grove PFOS/PFOA Plant Emissions & Monitoring

Activity

*FC-98 (finished goods sale)

*DS-2022 Production
(contains FC-431)

*Non-production Sources
(groundwater)



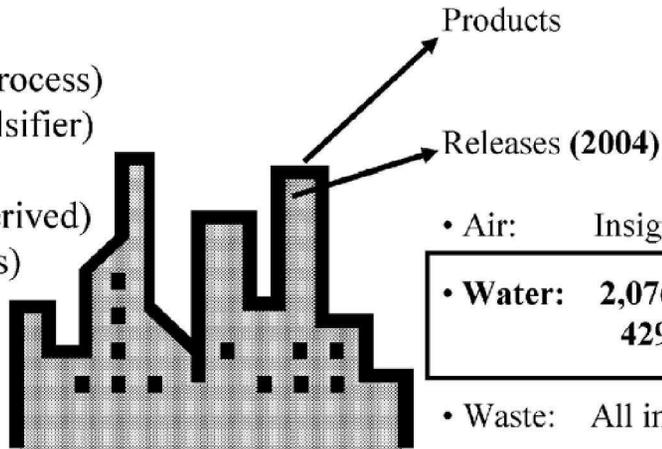
*Site Investigation & Remediation

Antwerp

PFOS/PFOA/PFHS Activity & Monitoring

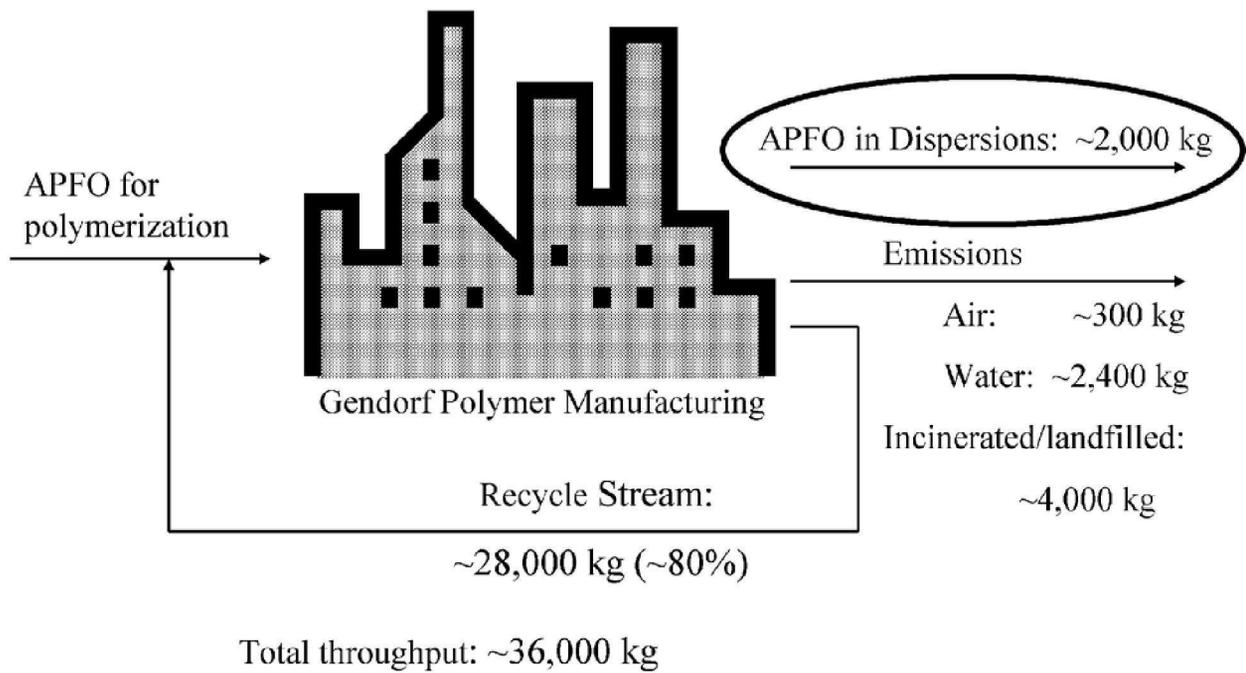
Activity

- *Lightwater Packaging
- *FC-77 Production (C₈ Acid process)
- *FC-128 (polymerization emulsifier)
- *APFO Salt Purification
- *Dyneon Work-ups (APFO-derived)
- *C8 Curative use (3 elastomers)
- * Non-production Sources??



Soil & Groundwater
Descriptive Investigation

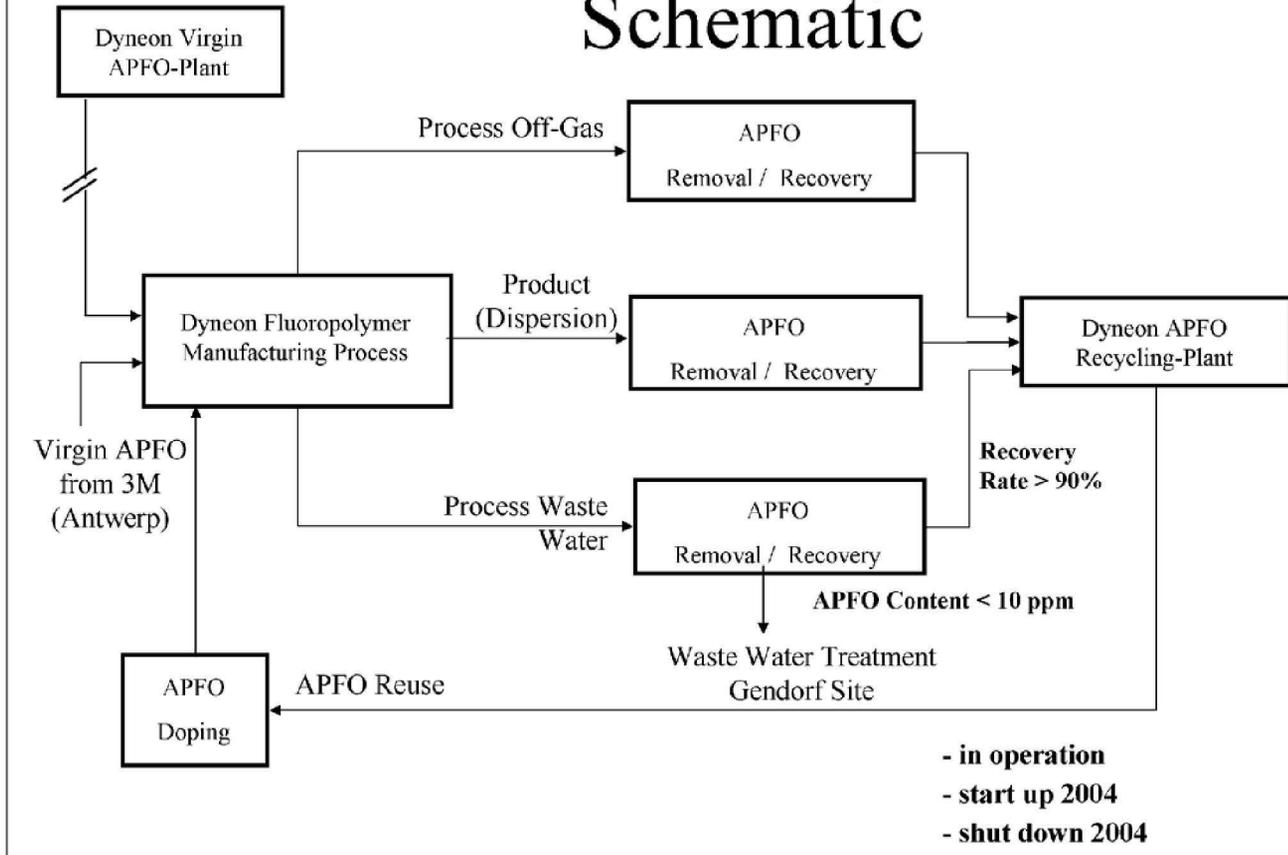
Estimated Gendorf APFO Use pattern - 2005



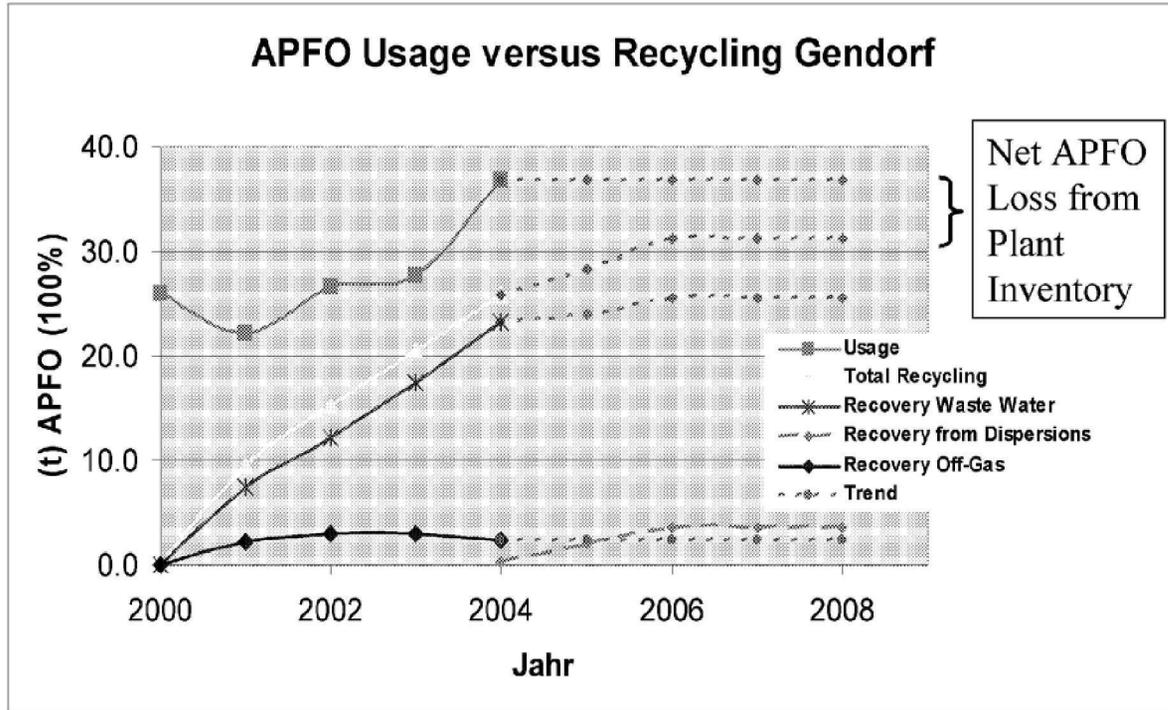


APFO Containment System

Schematic



APFO Mass-Balance - Gendorf



constant usage assumed

PFOS/PFOA/PFHHS Activity

Next Steps

- Continued rationalization of products and processes
 - EOY 2005 is target for exiting most applications
 - Exceptions:
 - FC-808 (Decatur)
 - FC-77 process (Antwerp)
 - APFO use (Gendorf)
- Initiating project to address remaining factory exposure and emissions sources