KNOWN PROCESSES AT FAYETTEVILLE WORKS WITH GENX IMPLICATIONS (No TSCA CBI)

Perfluoropropyl Vinyl Ether (PPVE) Process (Includes Production of GENX Raw Material)

Hexafluoropropylene Oxide (HFPO) [redacted]
CAS# 428-59-1
C3F6O

Condensation

HFPO Dimer Acid Fluoride (DAF)
CAS# 2062-98-8
CF3CF2CF2OCF CF3COF
To PPA Process by Truck

DAF

Reaction Vessel

Process Vent Streams Includes some HFPO & DAF

Crude PPVE & CO2
Includes some DAF

Permeators

CO2
To Atmosphere

Crude PPVE
Includes some DAF

Refining

PPVE
CAS# 1623-05-8
CF3CF2CF2OCF=CF2

Waste Fluorocarbon System for Off-Site Incineration
Includes some DAF
The DAF may convert to **CAS# 62037-80-3 (i.e. GENX)** or CAS # 13252-13-6 (Acid version of GENX) in the reactor

KOH Wet Scrubber

VOCs

Aqueous Waste Stream Includes Potassium Salt of DAF
CF3CF2CF2OCFCF3COOK

Waste Water Treatment Plant

Non Contact Cooling River Water

Discharge NPDS Permit NC0003573 to Cape Fear River
Potassium Salt of DAF or its Acid (i.e. the Acid version of GENX – CAS # 13252-13-6) may be present dependent upon pH)

GENX (PPA) Process (TSCA 5(e) Order)

Raw Materials

CAS# 62037-80-3 (i.e. GENX)
[redacted]
and
CAS# 13252-13-6 (Acid version of GENX)

All Waste Shipped Off-Site for Incineration
No Discharge to Cape Fear River

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KNOWN PROCESSES AT FAYETTEVILLE WORKS WITH GENX IMPLICATIONS (No TSCA CBI)

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C3F6O

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[redacted]

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DAF

[redacted]

Reaction Vessel

Process Vent Streams Includes some HFPO & DAF

KOH Wet Scrubber

VOCs

Aqueous Waste Stream Includes Potassium Salt of DAF CF3CF2CF2OCFCF3COOK

[redacted]

Waste Water Treatment Plant

Non Contact Cooling River Water

Discharge NPDS Permit NC0003573 to Cape Fear River
Potassium Salt of DAF or its Acid (i.e. the Acid version of GENX – CAS # 13252-13-6) may be present dependent upon pH)

Crude PPVE & CO2 Includes some DAF

Permeators

CO2 To Atmosphere

Crude PPVE Includes some DAF

Refining

Waste Fluorocarbon System for Off-Site Incineration
Includes some DAF
The DAF may convert to **CAS# 62037-80-3 (i.e. GENX)** or CAS # 13252-13-6 (Acid version of GENX) in the reactor

PPVE
CAS# 1623-05-8
CF3CF2CF2OCF=CF2

GENX (PPA) Process (TSCA 5(e) Order)

Raw Materials

[redacted]

CAS# 62037-80-3 (i.e. GENX)
and
CAS# 13252-13-6 (Acid version of GENX)

All Waste Shipped Off-Site for Incineration
No Discharge to Cape Fear River

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