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)
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

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)

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

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

Raw Materials

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