

## Next Generation OPW FlexWorks Pipe Important Information and FAQ

### Why a new pipe?

Voice of the Customer Take-Aways:

- Request for official UL971 Concentrated Fuels Certification.
- Request for increased Pipe Flexibility and Reduced Memory (particularly in cold weather).

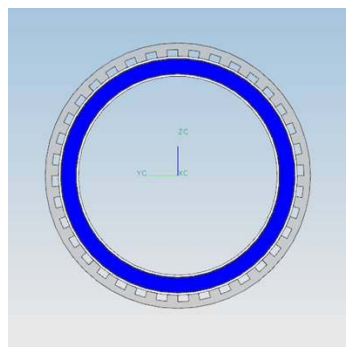
### Certification Timing:

- Concentrated Fuels Certification requires a completely new 270 day UL971 testing program.
- Decision was taken to enhance the pipe design in accordance with the VOC prior to submission.
- UL971 Certification Received April, 2011

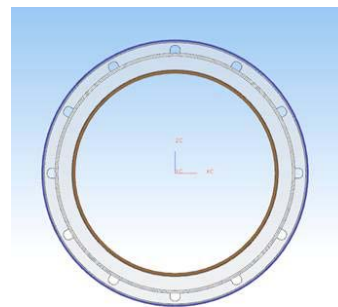
### New Pipe Product Enhancements:

- Increased Flexibility/Reduced Memory/Reduced Weight to enhance installation ease.
- Force required to bend the pipe has been reduced significantly to facilitate piping layout
- Inherent pipe memory has been reduced significantly to facilitate connection of pipes inside sumps.
- Pipe weight has been reduced to facilitate shipping and handling (1.5" pipe is 18% lighter)
- Next Generation enhanced KYNAR incorporated into new pipe liner
  - Provides improved processability for enhancement of the chemical bond.
- Enhanced Leak Detection Performance:
  - Interstitial space was redesigned to provide faster leak detection.
  - A leak from the primary pipe into the secondary will migrate to a containment sump more than twice as fast in the new pipe versus the old

### *Interstice Profile*



C15



C15A

## Questions:

### 1. How does the new pipe compare to the current pipe?

- Both pipes have KYNAR liners and covers.
  - KYNAR is among the most dense and inert thermoplastics in existence.
  - KYNAR has a 50 year track record of stellar performance with the most aggressive applications and chemicals.
  - KYNAR provides the best chemical resistance, permeation barrier, and long term performance with all fuels and additives, including alcohols and bio-fuels.
  - KYNAR has been used with great success in OPW fuel pipes since our entry into the market in 1997.
- Both pipes are compatible and warranted for use with all fuels
- The new pipe carries the additional UL971 certification for concentrated fuels as well as a supplemental test commissioned by OPW specifically for E85.

### 2. What approvals does the new pipe have? The new pipe has the additional concentrated fuels UL listing as shown below:

#### Motor Vehicle Fuels

- 100% ASTM Reference Fuel No. 2
- 100% ASTM Reference Fuel C
- 85% Reference Fuel C - 15% MTBE
- 85% Reference Fuel C - 15% Methanol
- 70% Reference Fuel C - 30% Ethanol

#### Concentrated Fuels

- 100% Methanol
- 100% Ethanol
- 100% Toluene

#### High Blend Fuels

- 50% Reference Fuel C - 50% Methanol
- 50% Reference Fuel C - 50% Ethanol

#### Aviation and Marine

- 100% Premium Leaded Gas
- 100% Kerosene

### 3. Does the new pipe require different fittings?

- NO, there is no change in fittings. All current fittings are interchangeable with both pipes.

### 4. What are the part numbers for the new pipe?

- An "A" has been added to the prefix on all FlexWorks pipe product numbers to designate the new pipe (i.e. "C15" now becomes "C15A" and so on). All length designations remain the same.

### 5. When will the new pipe be available?

- The new pipe will begin shipping in June as a running change. Pipe orders in the system will be automatically converted to the new pipe as it becomes available.

### 6. Is there a price increase for the new pipe?

- NO. We expect improvements in processability to offset the increased cost of the Next Generation KYNAR liner material.