



New Life Of Old Pipe

--- Introducing ---

New Pipe America Construction



New Life Of Old Pipe

A Full Service Company Specializing in

Pipe, Sewer & Drain Restoration



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AGENDA – NACE Mtg 2/10/15

- **Primus Line:** Internal Replacement Solution for Pressure Pipes & Forced Mains (PPT Slides & Two Videos), Q&A
- **BKP Berolina:** UV-Light Cured Sewer Liner (PPT Slides + One Video), Q&A
- **SWP:** Spirally Wound Pipe for Lining Sewers & Drains (PPT Slides + Three Videos), Q&A



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Introduces to the US market ---

PRIMUS  **LINE**

A Breakthrough Technology for

Pressure Pipeline Restorations



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PRIMUS  **LINE**

Pressure Pipeline Applications

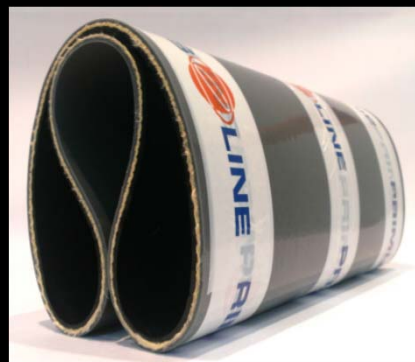
Water:

- Drinking water
- Wastewater
- Sea water
- Brine water

Petroleum:

- Crude oil
- Some fuels

Chemicals



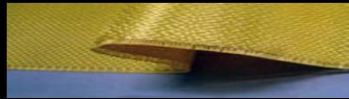


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Technological Breakthrough

Outer layer - abrasion-resistant PE sheath



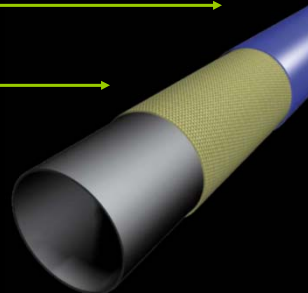
Protective layer

Kevlar®-Fabric

Single or double layer



Inner layer - (PE)
(Polyethylene)



Connects to all host pipes - steel, cast iron, plastic, PE

(Powder coated stainless steel connectors)



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How Internal Replacement Works:

- **Excavations: few or none, in some cases**
- **Inserted as a stand-alone, internal replacement**
- **Aging or corroded pipe is left in place**
- **Host pipe provides the conduit only, no support**
- **Operator may continue to provide CP (optional)**
- **No (or very little) contaminated dirt haul-away**
- **No expensive bursting or reaming process**
- **Fast, cost-effective recommissioning**



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When to Use Primus Line?

- Renew damaged or deteriorating pipelines
- Resolve faulty welds and/or leaking joints
- Increase or restore operating pressure needs
- Corrosion protection inside pipe
- Temporary bypass (*liner can be reused*)
- Emergency supply lines



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Minimized Construction Footprint

- Highly populated areas (less digging & traffic control)
- Bridges, railways, highways, bays, rivers, wetlands
- Avoid endangered species habitats, wildlife preserves, and other environmentally sensitive areas





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Sample Project: Gas Line Underneath Nature Reserve *(Video Demonstration)*



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Advantages of Primus Line:

↑ Superior Properties Compared to Steel:

- No Corrosion
- Less Scale & Mineral Build-up
- Slower Cavitation / Erosion
- Reduced Turbulence

↑ Flow rates for pipes of 10" ID and larger

↓ Maintenance & Operating Cost Reductions:

- Less Pumping = Lower Electric Costs
- Fewer Cleaning Cycles
- Inspection Expenses Eliminated

→ Damage Prevention: 3rd party intrusion & seismic

↓ Shorter project turnaround time



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Ideal Asbestos Cement Pipe (ACP) Solution



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Water Application Features:



- High-quality trenchless restoration
- No curing required – instant pipe
- Stand-alone – doesn't adhere to host pipe
- Kevlar® layer – for hoop strength
- 50+ year design life, best warranty available
- ANSI approved, ICC approved
- Meets NSF61 Standards for potable water
- 6" to 20" diameter pipes
- Water pressure – up to 900 psi
- Operating temperature – up to 122°F or 180°F
- Up to 1.5 miles per single insertion



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Ideal Calcium Carbonate Buildup Solution



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SAWPA SARI Brine Inline Test

60 Day Calcium Carbonate Test

- **PVC Pipe (green) – moderate buildup**
- **Primus Line (blue) – very little buildup**





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SAWPA Calcium Carbonate Test



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High Quality Solution
Quick Installation Process
Water Pipeline Project Demo

(Queue Video)



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Installation Process:

1. Pre-Job Camera Work
 - Determine Radius at Each Bend
 - Identify Sharps or Major Indentations
2. Host Pipe Cleaning & Inspection
3. Prepare Access Points
4. Insert Primus Line with Winch
5. Remove Sacrificial Tape, Re-Round Ends
6. Install Couplings
7. Connect, Pressure Test, BAC-Test
8. Return Pipeline to Service
9. Backfill (if nec) & De-mobe



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Value-Added Fiber Optics Option:

- Include fiber optics bundles during Primus Line installation
- 92 fibers per bundles
- Benefits:
 - Direct telecom connection between customers' facilities
 - Lease the fibers to local telecom companies for a steady, long-term revenue stream
 - Utilize just a few strands of fiber to monitor your new pipeline with acoustics data (an Acquisition Box is required for monitoring system)





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Mission Statement

We are dedicated to providing our customers with high quality pipeline rehabilitation solutions, in a way that is always on time, consistently exceeds customer expectations, at a fair and reasonable price, so that NPA is noted in the industry as the vendor of choice.



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QUESTIONS?

Thank You!

Dan Jarman, Operations Manager
djarman@NPAConstruction.com
Office Tel 949-595-0703
Cell 949-485-8774

Eric Foster, Account Manager
efoster@npaconstruction.com
Cell: 310-877-3822

MORE DETAILS: <http://www.npaconstruction.com>



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PRIMUS  **LINE**

**A Breakthrough Technology for
Hazardous Liquid & Gas
Pipeline Restorations**



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Internal Restorations for
Sewer and Drain
Lines



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Cured In Place Pipe (CIPP) (UV-Light Cured)



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CIPP liner



UV-light cured

Attributes

- CIPP UV-light cured
- Fiberglass Material, Vinyl Ester Resin
- No Styrene emissions
- Seamless construction
- Requires bypass
- Up to 1,300 ft insertions
- 5 Year Warranty
- Fiber optics option in annular space



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CIPP liner



UV-light cured

High Quality Trenchless Restoration for:

- **Aging or damaged sewer lines & storm drains**
- **6" to 60" diameter pipes**
- **Resolution for chronically leaking joints**
- **Multiple laterals or service connections**
 - Laterals easily found and cut-through
- **Environmentally sensitive areas**
- **Oval as well as round pipes**



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CIPP liner



UV-light cured

Sewer Line Renewal

BKP becomes structural:
Provides ring stiffness 5 x stronger
than standard CIPP felt liner



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CIPP liner



UV-light cured

Sewer Line Renewal

Actual Installation

(Video)



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