



## Advantage

### Improved Pipeline Cleaning In Less Time... Online!

The buildup of solids or sediment in pipelines causes a significant decline in operating efficiency, especially in deep water where depths and water temperature can create a variety of flow problems.

N-SPEC® is the worldwide leader in pipeline cleaning online, removing waxes, asphaltines, hydrates and other production-robbing solids that cause blockage in pipelines.

N-SPEC® pipeline chemical cleaners are highly concentrated liquid surfactants, polymers and dispersants designed to open lines with extremely reduced ID or plugged lines because of paraffin/ asphaltine deposition. N-SPEC® was one of the first companies to recognize “black powder” contaminants and developed a unique surfactant blend to remove the deposits.

Safe operations and protecting the environment are priority issues in the design and engineering of any N-SPEC® procedure. Our technical representatives are trained to engineer line cleaning and process equipment cleaning applications with the highest regard to both personnel safety and environmental protection.

#### N-Spec Advantages

- Reduce horsepower requirements
- Increase pipeline efficiency
- Reduce corrosion potential
- Improve quality of data collected during inspections

#### Tank Cleaning Advantages:

- Environmentally friendly technology
- Less than half the cleaning time of conventional methods
- Dramatically reduce disposal cost
- Minimal personnel time in tanks

<b>Coastal Chemical Co., L.L.C.</b>	<b>Brenntag Nederland BV</b>	<b>Brenntag</b>	<b>Brenntag Canada</b>	<b>Brenntag Quimica Brasil Ltda.</b>
N-SPEC Pipeline Services	Oil & Gas Group	Holland Chemical Mexicana	Calgary, Canada	Rio de Janeiro, Brazil
Lafayette, LA USA	The Netherlands	Tultitlan, Mexico	Phone: 403.263.8660	Phone: 55.21.25187102
Phone: 337-261-0796	Phone: 31.78.654.4944	Phone: 52.55.5888.0344	Fax: 403.233.7011	Fax: 55.21.22630474
Fax: 337-272-0153	Fax: 31.78.654.4986	Fax: 52.55.5888.1142		