

## Pipeline for nitrogen at Zeebrugge – Connecting line between NMP pipeline Zeebrugge – Gent and the LNG-terminal



**Initiator:** Fluxys N.V. in cooperation with Air Products and the Nationale Maatschappij der Pijpleidingen

**Client :** Fluxys N.V., Brussels

**Period :** 2005 - 2006

**Budget :** € 100.000

**Location :** Zeebrugge - Gent

### Project characteristics:

- pipeline DN300
- length 6,3 km
- max. operating pressure : 25 bars
- steel quality API 5L grade B
- three natural reserves (Kleiputten van Heist, Sashul, Baai van Heist) are situated along the pipeline route. In the past, major natural gas pipelines were installed in the vicinity (Fluxys send out lines starting from the LNG-terminal and the Statoil Zeepipe).

### Services:

- route definition
- route design
- authority engineering (permit application files)
- environmental files (appropriate judgement and exemption file)
- technical specifications
- engineering of the connecting pipeline on the LNG-terminal Zeebrugge

### Project description:

In order to meet the increasing demand for nitrogen on the Zeebrugge LNG-terminal, a connecting line from the NMP-line Zeebrugge – Gent to the LNG-terminal is required, as nitrogen should be transported from the Air Product Gent production site to the LNG-terminal. Nitrogen is an additive to natural gas to adjust natural gas calorific value.

In Zeebrugge, a branching line has to be installed over a length of approx. 6,3 km from a tie-in point on the Zeebrugge – Gent line in Zeebrugge inner harbour.



### Route design:

The pipeline route design was subject to intensive discussion with the regional environmental authority (Aminal).

Finally it was agreed to install the pipeline parallel to the existing Statoil pipeline. This pipeline is situated in two natural areas (Kleiputten van Heist, Sashul).

To avoid damage to the values of nature in these areas the option to install the pipeline by directional drilling was chosen.

The total length is 1300 m.



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