

## LUKOIL-Permnefteorgsintez LLC, Perm COMMENT

on operational properties of Isollat-Effect heat insulation coating

In July 2010, heat insulation of metal pipeline of the pressure reservoir was completed in accordance with the project of "Permgrazhdanproekt" on the object "Site No. 3 BTW (biological treatment of industrial waste water), shop No. 17 of UVK and OSV LUKOIL-Permnefteorgsintez LLC". Insulation was performed with the following characteristics: 0820, L=450 m,  $T_{min}=15^{0}$ C,  $G_{av}=200\text{-}600$  m<sup>3</sup>/h. Pre-set time for storing the substance = 72 hours.

During the period from July 2010 till now Isollat-Effect coating performs its functions and meets the expected requirements:

- no cracks and delamination of the coating have been detected during operation;
  - no freezing of the pipeline in the last winter periods has been revealed;
- no wetting of the coating as a result of condensation in the past summer periods has been revealed;
  - no visible signs of environmental influences (precipitation);
  - the coating color has changed to gray.