## POWER THERMAL PRODUCTS Steam Turbines

ALSTOM (Switzerland) Ltd. Brown Boveri Strasse 7 5401 Baden, Switzerland

Phone: 41 (0) 56 205 77 33 Fax: 41 (0) 56 205 71 71 www.power.alstom.com

Baden, 15<sup>th</sup> lune 2011



AFTON CHEMICAL Corporation
Dr Meinolf Schulte / Deborah Shepperson
R&D Richmond
101 West Byrd St. @ Belvidere
RICHMOND VA 23219
USA

## Approval of turbine lubricating oil

Dear Dr Schulte, Dear Miss Shepperson,

We are pleased to inform you that the lube oils **GS Turbine Oil 32** and **GS Turbine Oil 46** meet the requirements of the ALSTOM specification HTGD 90117 (Lubricating and Control Oils for Turbines) The above-mentioned oils will be included as tested and recommended lubricant for ALSTOM turbines in the next edition of our specification HTGD 90117. The oils will be listed as follow:

Brand Name Designation Date of last oil test With EP additive
GS Caltex GS Turbine Oil 32 June 2011 No
GS Caltex GS Turbine Oil 46 June 2011 No

The lube oils can be used by now, on ALSTOM Gas and Steam turbine units.

As agreed, the cost for lube oil testing in our Laboratory is Euro 13000. After transferring the invoiced amount, we will send the final test report.

Thank you for your confidence.

Kind regards,

Ion Soare for TPSNRM