

PRESS RELEASE

Contact:

Communication Office
Promotion and Development Section
University of Cyprus
Tel.: 22894304, Fax: 22894477
E-mail: prinfo@ucy.ac.cy,
Web-site: www.ucy.ac.cy/pr

Nicosia, 28 March 2017

UCY POWER SYSTEMS MODELING LABORATORY CONSULTS ON TAP PIPELINE

Study conduction on mitigation design for effects of electromagnetic interference on Trans-Adriatic Pipeline caused by HV AC Traction & HV/MV AC Power Supply Systems



The Power Systems Modeling Laboratory (PSM Laboratory) of the University of Cyprus (UCY) has successfully completed and submitted to the *Trans Adriatic Pipeline AG* the study assigned to conduct on mitigation design for the effects of electromagnetic interference on Trans-Adriatic Pipeline (TAP) caused by HV AC Traction Systems and HV / MV AC Power Supply Systems.

The aim was twofold:

- i) Modelling for estimating the AC interference impact under both steady state and fault conditions for ~400km of TAP routing from Kavalla to Albanian borders [Modelling embraced: a) 38 HV circuits (400kV and 275kV), b) 20kV MV circuits, and c) AC Electrified Traction routings in the nearby vicinity].
- ii) Designing an earthing wire oriented mitigation solution to ensure safety and mechanical integrity of TAP.

The study was conducted by a team comprising of PSM-Laboratory researchers with the relevant expertise, under the supervision of the Laboratory Director, Associate Professor Charalambos A. Charalambous.

The Trans Adriatic Pipeline AG is the joint venture company that plans, develops and builds the TAP pipeline. Its stakeholders are BP, SOCAR, Snam, Fluxys, Enagas and Axpo. The pipeline would be supplied

by natural gas from the second stage of the Shah Deniz (Azerbaijan) gas field development in the Azerbaijani section of Caspian Sea through the South Caucasus Pipeline and the planned Trans Anatolian Pipeline (TANAP). It is a significant project, part of the Southern Gas Corridor, and is supported by the European institutions. It is expected to enhance energy security and diversify gas supplies for several European markets.

PSM Laboratory

The UCY Power Systems Modeling Laboratory operates under the auspices of the Department of Electrical and Computer Engineering (ECE). For more information on its activities please visit its website (www.psm.ucy.ac.cy).

End of announcement