

 Downstream view of right bank under construction.



View of the future inside left gallery.



Instrumentation cluster.

## Tsankov Kamak HPP, Bulgaria



The Tsankov Kamak Dam, Devin, Bulgaria.

In early 2008, Geokon, Inc.'s Canadian division, GKM Consultants, was awarded a major contract to provide the instrumentation system for the Tsankov Kamak Dam in Bulgaria. Geokon, Inc./GKM Consultants will serve as a sub-contractor to Alpine Bau GmbH, the primary civil contractor.

Tsankov Kamak Dam, located near the town of Devin, is currently under construction. It's designed to be a concrete arch dam, with double curvature and a height of 130.5 m. Its length at crest is 468 m, volume content is 465,000 m<sup>3</sup> and reservoir cross capacity is 110,900,000 m<sup>3</sup>.

GKM Consultants, in conjunction with local sub-subcontracting firms, will provide up to 200 instruments to measure seepage, stress, inclination, displacement, temperature, foundation pressure, seismic acceleration, weather parameters and more. In addition, a complete automatic monitoring system will be deployed inside the dam through a fiber optic communications network.

To facilitate management of the data generated by the system, Geokon, Inc./GKM Consultants will provide the sophisticated Vista Data Vision (VDV) data visualization software package. Relevant data and information can be viewed as graphs and tables through a special mimic board, which provides Virtual Digital Displays. This approach will make it much easier for site Engineers and Operators to monitor the dam's behavior. The same information will also be accessible via the Internet using the VDV web browser module.

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