

Koelnbrei Dam, Austria

osmos

Integrated safety for structures



Detail of earthworks being monitored

Preventive monitoring of an expansion joint

Client

Austrian Draukraftwerke

Structure

Koelnbrei Dam, Austria

Context

New support buildings have been added to the old concrete dam. An expansion joint separates the two structural parts.

Client's Needs

The client needs to monitor the width of this expansion joint in order to ensure the continuity of the dam exploitation.

Instrumentation Installed

2 optical extensometers have been installed for the expansion joint monitoring.

Initial Results

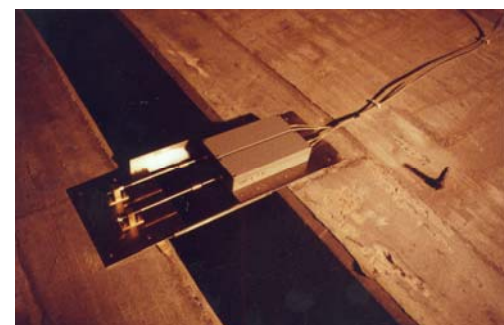
The data gathered by the monitoring have shown that the expansion joint deformations are caused by thermal variations.

Client Benefits

Thanks to the OSMOS system, the client can monitor the deformation of the dam and intervene very precociously in case of abnormal joint deformations, without any hindrance in the power supply.



View of the extensometers in their real working situation



Two optical extensometers monitor the movement of two structural components