

Bridge Projects SoundPrint® Acoustic Monitoring

The following is a list of bridge projects where SoundPrint® acoustic monitoring systems have been installed for the purpose of detecting the failure of high strength steel wires or bars.



St. Nazaire Bridge- St. Nazaire France

Monitoring the internal post-tensioning tendons of the approach slabs.
System to be installed in 2011/2012
Organization: DYNAOPT



Chesapeake Bay Bridge– Annapolis, MD

Monitoring the full length of Eastbound main cables-installed in 2006.
Monitoring the full length of the Westbound main cables-installed in 2010.
Organization: Maryland Transportation Authority



Forth Road Bridge– Edinburgh, Scotland

Monitoring the full length of both main cables. Monitoring system installed in 2006.
Organization: Transportation Research Laboratory (TRL)



Millau Viaduct– Millau, France

Monitoring of a representative sample of stay cables with 7-wier strands. Monitoring system installed in 2005.
Organization: Advitam



Ponte Moesa– Moesa, Switzerland

Monitoring of internal post-tensioning tendons. Monitoring system installed in April 2004.
Organization: Advitam



Tamines Bridge– Belgium

Monitoring the tendons of a grouted, internally post-tensioned bridge.
Monitoring system installed in April 2004.
Organization: Advitam



Penang Bridge – Penang, Malaysia

Monitoring of stay cables using high strength steel bars. Monitoring system installed in December 2003.
Organization: Advitam



Wacker Drive Viaduct - Chicago, Illinois Monitoring the tendons of a grouted post-tensioned, elevated roadway in downtown Chicago. Monitoring system installed in September 2003.
Organization: City of Chicago Department of Transportation/Wiss, Janey, Elstner Associates Inc.



Ancenis Suspension Bridge - Ancenis, France Monitoring the full length of two main cables for this suspension bridge. Monitoring system installed September 2003.
Organization: Advitam



Waldo Hancock Bridge - Verona, Maine Monitoring the full length of two main cables on this suspension bridge. Monitoring system installed July 2003.
Organization: Maine Department of Transportation



E17 Kortrijk - Belgium Monitoring the tendons of a grouted, internally post-tensioned box girder. Monitoring system installed in December 2002.
Organization: Advitam



A27 Breda - The Netherlands Monitoring the tendons of an internally post-tensioned box-girder. System installed in September 2002.
Organization: Advitam



Quincy-Bayview Bridge - Quincy, Illinois Monitoring fourteen grouted stay cables on this bridge over the Mississippi River. Monitoring system installed in June 2002.
Organization: Illinois Department of Transportation



Fred Hartman Bridge, Baytown - Texas Monitoring 192 grouted stay cables on this twin-span bridge over the Houston Shipping Channel. Monitoring system installed in February 2002.
Organization: Texas Department of Transportation



St. Pierre Bridge – Reunion Island (Overseas Department of France) Monitoring the tendons of an externally post-tensioned box-girder bridge. Monitoring system installed in July 2001.
Organization: Advitam



Bear Mountain Bridge - Ft. Montgomery, New York

Monitoring the southwest back span main cable from the anchorage to the tower. Monitoring system installed in February 2001. Acoustic Fibre Optic system installed 2011.

Organization: New York State Bridge Authority



River Soar Bridge - England

Monitoring the tendons of a post-tensioned box-girder bridge. Monitoring system installed in January 2001.

Organization: United Kingdom Highways Agency



Mossband Viaduct - England

Monitoring the tendons of a twin six-span highway viaduct over high-speed rail line. Monitoring system installed in October 2000.

Organization: Transport Research Laboratory



Bronx-Whitestone Suspension Bridge - New York, New York

Monitoring the full length of both main cables. Monitoring system installed April 2000.

Organization: MTA Bridges andTunnels/ Weidlinger Associates Inc/ Modjeski and Masters



George Washington Bridge - New York, New York

Monitoring of suspender ropes and main cables on suspension bridge. Temporary test system installed and completed in April 2000.

Organization: Port Authority of New York and New Jersey



St. Cloud Viaduct - France

Monitoring the tendons of a grouted, externally post-tensioned bridge. Monitoring system installed March 2000, expanded 2001 and still in place.

Organization: Advitam



Alex Fraser Bridge - British Columbia

Monitoring of unbonded stay cables. Temporary prototype installation in 1998.

Organization: British Columbia Ministry of Transportation and Highways



Huntingdon Railway Viaduct - England

Monitoring the tendons on a grouted, internally post-tensioned bridge. Monitoring system installed in March 1998.

Organization: Transport Research Laboratory



Thorley Lane Bridge- England

Monitoring the tendons on a grouted, internally post-tensioned bridge. Monitoring system installed in March 2009.

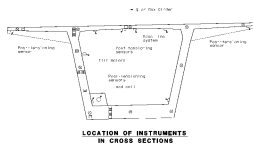
Organization: Transport Research Laboratory



Bowden View Bridge- England

Monitoring tendons of post-tensioned slabs. Installed and maintained this structure from late 2007 until it was demolished in October 2010.

Organization: Transport Research Laboratory



Benicia Martinez Bridge, California

Monitoring the tendons of an internally post-tensioned box girder bridge. Installation scheduled for 2006.

Organization: California Department of transportation/CH2MHill/Wiss, Janney, Elstner Associates Inc.