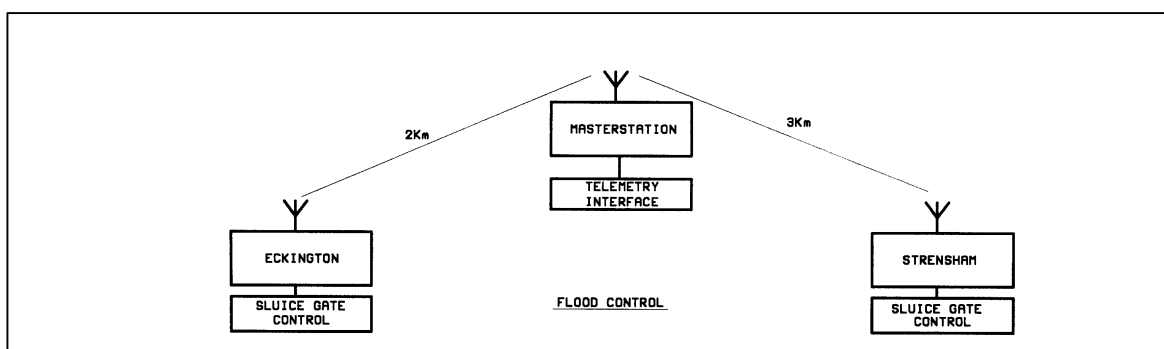


**Overview**

The Environmental Agency has a land line telemetry system which monitors and controls the level of the river Severn. However the sluice gates at Eckington and Strensham are not easily accessible and are often submerged during flooding.

The XNET Radio Telemetry System provided a reliable cost effective solution to connect both sluices to the main telemetry system.

**System Specification**

A XNET transceiver configured as node 0 was installed at the interface with the main telemetry system. A total of 16 digital Outputs, 16 digital Inputs and 5 Analogue outputs were required. Hence the following hardware was specified:

- 1 off X7100 Transceiver with 8 DI, 8DO, 2 AI and 2 AO
- 1 off X7102 Digital Output Module with 8 DO
- 1 off X7101 Digital Input Module with 8 DI
- 1 off X7105 Analogue Output Module with 4 AO

A X7100 Transceiver configured as node 1 was installed at Eckington Sluice. A total of 2 digital outputs, 6 digital inputs and 3 analogue inputs were required. Hence the following hardware was specified:

- 1 off X7100 Transceiver with 8 DI, 8DO, 2 AI and 2 AO
- 1 off X7104 Analogue Input Module with 4 AI

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A X7100 Transceiver configured as node 2 was installed at Strensham Sluice. A total of 4 digital outputs, 6 digital inputs and 3 analogue inputs were required. Hence the following hardware was specified:

1 off X7100 Transceiver with 8 DI, 8DO, 2 AI and 2 AO  
1 off X7104 Analogue Input Module with 4 AI

All the three stations were provided with a 24 hour battery backup in case of mains failure.