

Hydropower Plant Avignon

Project Description

- Commissioning of a static excitation system
- Cold commissioning, verification of machine data and parameters, signal testing
- Execution of no-load and load tests with the generator



The Avignon hydroelectric power plant, a run-of-river facility on the Rhône River in southern France, was commissioned in 1973, has an installed capacity of 120 MVA and is operated by Compagnie Nationale du Rhône (CNR).



Role & Scope

Cold and hot commissioning of the excitation system.

- Validation of hardware type and hardware settings
- Visual inspection of the installed system
- Testing and switching of supply voltages
- Testing and correcting system parameters
- Machine no-load and load tests, verification of controller settings and limiters
- Documentation of the results and preparation of the final reports

General Project Contribution

- Technical contact for the electrical tests
- Corrections and adjustments of system functions to specific plant requirements
- Analysis of problems and necessary coordination with the operator and supplier

Highlights & Benefits

Through the commissioning of the refurbished excitation system at the Avignon hydropower plant, INP Schweiz supported ABB Schweiz in the safe handover of the plant to operations. The systematic verification and optimisation of the control and limiting functions ensured stable generator operation and high plant availability from the start of operation.

INP's long-standing experience in the commissioning of UNITROL® excitation systems was a key factor in the successful execution of the project, achieved in close coordination with all involved stakeholders.

Technical Component Details

- Excitation system for 30 MVA hydropower generator
- ABB UNITROL® 6080 excitation system

Customer: **ABB Schweiz AG**

Location: **Provence, France**

Project Duration: **1 week**

Services: **Complete commissioning of an excitation system for a hydroelectric generator from handover to operations**

"This project is one of many commissioning projects for excitation systems. Thanks to the numerous projects and the extensive experience of our specialised commissioning engineers, we are able to respond dynamically to challenges during commissioning, further strengthened by close collaboration with the OEM in training and knowledge transfer."

RENÉ, DIVISION MANAGER
INP SCHWEIZ AG