

## PROJECT FACT SHEET

## Customer:

## Major Projects Victoria

## Project:

Australian Synchrotron

## Project Profile:

A synchrotron is a large machine, approximately the size of the MCG that accelerates electrons to almost the speed of light, where they have a very high energy level. As the electrons are deflected around a storage ring they give off beams of extremely intense radiation (light) that run tangentially from the machine. These beams are then captured in specially designed beamlines that are then used to perform many different types of experiments simultaneously. Nilsen was an integral part of the team delivering the Australian Synchrotron, which also included specialists from all over the world. It is the world leading facility in its class.

Nilsen's Scope of Works included:

- Design, review & installation of LV electrical works
- Design & installation of HV reticulation works
- Design & installation of communication network
- Installation of storage ring magnet works
- Installation of personal safety system
- Fabrication & installation of the injection system
- Supply & installation of LV reticulation system
- Installation of signal cabling

The complexity of the project demanded a company that could understand and deliver a total package. Nilsen's technical expertise ensured a seamless installation of all packages.

**Winner – 2006 Victorian NECA Awards of Excellence, Industrial**



Connected to the past, transforming the future