

# AGR Sodium Cyanide Plant Projects

## Kwinana, Western Australia, Australia



### Client

Australian Gold Reagents Pty Ltd (AGR)  
JV between Wesfarmers CSBP Limited  
and Coogee Chemicals Pty Ltd.

### Project Value

\$A 20 million (Stage 2)  
\$A 15 million (Solids Plant)

### Project Scope

EPCM and commissioning assistance

### Technologies

Roehm Sodium Cyanide  
IPSC Sodium Cyanide solids proprietary  
technology

### Period of Work

Original Plant 1987 – 1989  
Second Stage Plant 1997 – 1998  
Solids Plant June 2001 – January 2002

## Project Description

### Initial Plants

This 15,000 tpa Sodium Cyanide plant is a replication of an existing unit which was also engineered by Uhde Shedden and built on the same site in 1989. Designed as a stand-alone unit, the new facility has one reactor with space allocated for further expansion.

Sodium cyanide is one of the major chemicals used in gold extraction. Reacting natural gas, air, ammonia and caustic soda produces the 30 per cent sodium cyanide solution and the facility includes a waste gas incinerator that generates steam to drive a 5 Megawatt turbine generator.

### Solids Plant

This 10,000 tpa Sodium Cyanide Solids plant was designed to convert liquid sodium cyanide from the two Uhde Shedden designed liquid sodium cyanide plants to solid form for distribution to remote consumers