

## AJ Bush & Sons rise from the ashes in record time



### CLIENT

A J Bush & Sons (Manufacturers) Pty Ltd are a major Australian meat by-products rendering company with facilities in New South Wales and Queensland.

### OBJECTIVES

A J Bush relocated their Brisbane plant to Beaudesert in 1993. Wiley carried out the design, construction and project management for the relocation.

In 2001, the Processing Building was completely destroyed by fire.

Wiley was awarded the task of reconstructing the plant with minimum interruption to the facility's overall production.

### CHALLENGES

- Complete the project in the shortest time frame with competitive tendering and complete cost transparency
- A fast-track method was required where the design, tenders, awarding and rebuilding could run simultaneously, but still retain competitive tendering for the client and other stakeholders such as insurers
- Rebuild the plant around temporary process operations
- A new structure had to be built over the existing temporary process lines, while those processes remained in full operation.

### SOLUTIONS

#### Advice

- Identify short-term critical program for limited process capacity
- Identify critical lead time items
- Establish overall program
- Establish site environmental and safety plans.

#### Design

- Conduct salvage study – what could be retained, considering structural adequacy
- Establish new design requirements
- Establish cost estimates
- Fast track design documentation and specification.

#### Engineering

- Specification and tendering of process automation and SCADA system
- Coordination of construction activities with process equipment installation and commissioning.

#### Construction

- Bid, negotiate and award subcontract packages
- Establish protocols for transparent project cost accounting
- Detailed monthly reporting to stakeholders
- Chair and minute all project meetings
- Supervise and coordinate construction activities in main contractor role
- Initiate demolition and removal of debris
- Ensure all utility services were terminated correctly
- Establish temporary services.

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### RESULTS

The Wiley approach achieved the earliest completion date for the re-built facility. The timing of the design process was critical. Drawings had to incorporate a building extension and changes to meet new requirements.

Key program dates were:

- Week 4 demolition and clearing complete
- Week 6 temporary process lines operational
- Week 12 roof complete
- Week 24 project complete

The estimated time saved on completion by detailed planning and overlapping design, tendering, and construction activities was 12 weeks.

