

## BEVERAGE PLANTS

Efficient plant design and capability is vital for every beverage processor. Optimum design, key engineering support and consistency is imperative. Hygienic systems, clean in place (CIP) functionality, effective filtration, reliable high speed packaging lines, accurate measurement and fulfilling plant KPI's are all fundamental building blocks to successful operations.

Our personnel provide a wealth of experience in the Beverage industry, both in operational roles and in project management and design. This includes involvement in major upgrades such as complete brew house replacement and integration and projects, Beer Recovery, CO2 recovery, hazardous chemicals and water saving projects.



### MASTER PLANNING

Early involvement with TFA in planning your development can save cost and time. Key early works include

- Development of Site Layouts
- Planning, strategic and statutory advice
- Project Definition and Basis of Design specifications
- Feasibility studies and preliminary cost estimates
- Front end engineering design
- Optimisation of new tank capacity

### REGULATORY APPROVALS

Having the necessary town planning expertise allows the project to be planned and assessed in accordance with relevant Local and State regulatory requirements. Considering the environment that the projects are developed in, it is imperative that pre-planning is correct. TFA's Town Planning team has both national and international experience and are experts in in dangerous goods approvals. They can assist with:

- Preparation and lodgement of Development Applications
- Obtain approvals for demolition, Operational Works, building approvals, plumbing & draining, ERAs, etc.
- Planning appeals

### PROJECT MANAGEMENT AND DESIGN

Our complete engineering and design service comprises: civil, mechanical, structural, hydraulic, electrical, fire and process. From site planning and concept design through to detailed design and As Builts, the entire process is handled within the TFA Group operations. 3D architectural modelling, 3D Bentley AutoPlant modelling, AutoTurn vehicle movement analysis, sophisticated piping analysis, hazardous zone electrical design.



**BRISBANE  
(HEAD OFFICE)**  
166 Knapp Street  
Fortitude Valley QLD 4006

H/O Phone: +61 7 3854 2900  
Fax: +61 7 3854 2999

**SYDNEY**  
Suite 315  
33 Lexington Drive  
Bella Vista NSW 2153

NSW Phone: +61 2 8814 5219  
Australia Wide: 1300 794 300

**MELBOURNE**  
Suite 1401  
401 Docklands Drive  
Docklands VIC 3008

VIC Phone: +61 3 9640 0206  
Website: www.tfa.com.au

**PERTH**  
Level 3  
1060 Hay Street  
West Perth WA 6005

WA Phone: +61 8 9480 0430  
ABN: 34 612 132 233

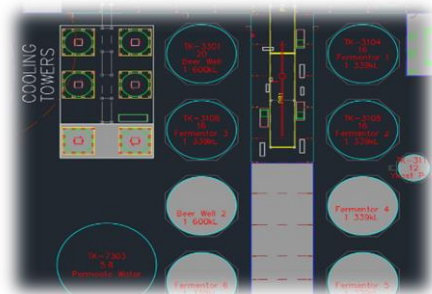
## BEVERAGE PLANTS & DANGEROUS GOODS / HAZARDOUS CHEMICALS

TfA are experts in Dangerous Goods facility design and compliance auditing having performed national compliance audits for a number of clients across various industries. We are members of the Australasian Institute of Dangerous Goods Consultants and actively apply our expertise to projects where dangerous goods and hazardous chemicals are involved. We can help you identify and classify hazardous chemicals within your facility, conduct risk assessments and reports for authoritative bodies and incorporate changes into your existing design.



## HAZARDOUS AREA CLASSIFICATION

Hazardous Area Classification must be performed by a competent person who has completed approved training such as UEENEEM052A (gas) UEENEEM053A (dust). TfA are experienced and certified in hazardous area classification with decades of experience designing, commissioning and operating hazardous area facilities across the nation. It is critical that hazardous areas are identified early in project development to identify where hazardous certified electrical equipment must be installed. Costly delays can be incurred if the correct design and documentation is in place.



## COMPLIANCE AUDITING AND INSPECTIONS

As industry experts, TfA Project Group have provided countless audits on behalf of clients. TfA are intimately familiar with legislative and code requirements, and can ensure your installation is correctly classified, equipment appropriately specified and compliant installation performed ensuring your project is delivered on time and on budget. Whilst regulations differ slightly in each state, electrical installations in 'hazardous areas' often require inspection by an accredited auditor prior to energisation. The inspection is to verify the hazardous area electrical installation and electrical equipment is suitably certified, correctly installed and complies with certification documentation and the appropriate standards. Accredited auditors must demonstrate the necessary expertise or experience, or have completed an approved training course.

## RISK ASSESSMENTS AND HAZOP

TfA has experienced facilitators capable of conducting Hazard and Operability Studies (HAZOPs). TfA facilitators bring experience from previous roles in operations and commissioning to give context and value to the HAZOP review process.

## KEY AREAS OF EXPERTISE

FEASIBILITY STUDIES

PROJECT MANAGEMENT

MECHANICAL DESIGN

PROCESS ENGINEERING

CIVIL DESIGN

STRUCTURAL DESIGN

ELECTRICAL DESIGN

TOWN PLANNING & APPROVALS

CONSTRUCTION MANAGEMENT