

AB InBev: Rosslyn Brewhouse Planning Tool

ASSIGNMENT NAME:

Brewhouse Planning Tool and Optimisation

LOCATION:

e.g. Rosslyn, Pretoria, South Africa

YEAR OF STARTING PROJECT:

2018

DURATION OF ASSIGNMENT:

4 Months

DESCRIPTION OF PROJECT:

Introduction:

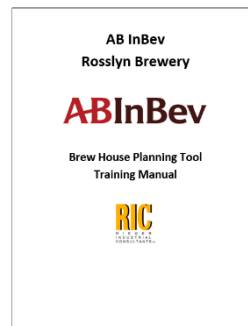
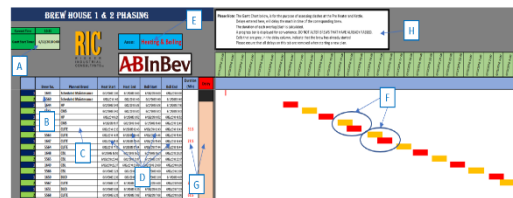
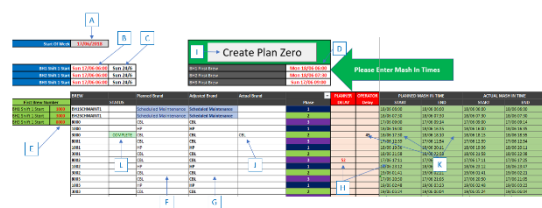
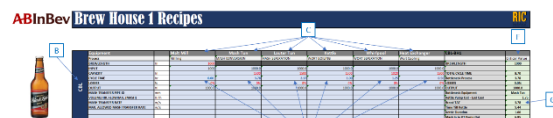
Rosslyn Brewery has recently built a 3rd brewhouse. There are interdependencies between the brew houses as certain equipment is shared. There is also a want to reduce the overlap of boiling to reduce peak steam usage. RIC, therefore, developed a planning and optimisation tool to improve production throughput and reduce production cost in the brewhouse.

Methodology:

- The 3 brewhouses were studied to understand the constraints, relationships and requirements.
- Information was collected with regard to cycle times, utilities requirements, sequencing, raw material requirements and operation preferences.
- Production costs were also collected and compared for the 3 brewhouses.
- An optimisation tool was then developed to generate a brewing schedule, such that the required brewing was completed in the minimum amount of time, whilst trying to minimise cost.
- The planning tool then allowed the operator to manually adjust this schedule and account for any deviations.
- Various visual aids were also designed to assist with effective planning and mitigation of risk.

Results:

The tool has since replaced the previous planning tool completely and is the primary production planning tool for the brewhouses.



DESCRIPTION OF ACTUAL SERVICES PROVIDED BY THE FIRM:

- Production Planning and Optimisation Tool