Use of the Britest PDD Stencil and Template v4

# Introduction

This document gives recommendations for the use of Version 4 of the Britest PDD stencil and template, prepared by Rob Peeling in July 2017. Version 4 provides GHS Pictograms to facilitate the use of PDDs for Early Stage Identification of Process Safety Hazards & Inherent Safety Assessment.

# Requirements and setup

The PDD template and stencil have been prepared for compatibility with Microsoft Visio 2016. They are distributed in a zip file together with this document and an example Visio PDD drawing.

The all files in the zip file should be unzipped to the same directory, which should be the “My Shapes” directory if you have one.

# Settings

The shapes have been prepared based on the use of a 2.5mm grid. The A4 template is set up with a 2.5mm grid already. If you want to use the PDD symbols stencil with a different template (e.g. your company’s standard engineering drawing template), you should also set this up with a 2.5mm grid.

# Contents

## Stream nodes

The stencil has shapes for stream nodes of energy and five possible phases (vapour, aqueous and organic liquids, and two different solid phases). These are given with the labels in different orientations, for convenience when laying out the drawing.

For multiphase streams, there are large stream nodes for representing the continuous phase, and small stream nodes without labels, for the dispersed phases.

## Connectors

For the five different phases, there are two sizes of connectors, of standard width and of a thicker width to represent the continuous phase of multiphase streams. A standard connector can be placed over the continuous phase connector, to represent the dispersed phase.

## Task symbols

A standard task box is provided, together with a backmixed symbol.

## Phase shapes

An assortment of shapes representing phases are provided, for inserting in the task boxes.

## Examples of shapes available

are shown on next page…

