INTELLIGENT
PROJECT SOLUTIONS

iDrawings P&ID Helps Operation Company Standardize P&IDs across Global Sites

- **Business Process**
  Engineering Operation

- **IPS Solution**
  iDrawings-P&ID

- **Industry**
  Chemical

Benefit to Customer

A global operation company wanted to standardize its P&IDs across global sites into one SPPID standard. IPS iDrawings P&ID solution enabled automation of standardization from 6 different standards into 1 global standard at a much-reduced cost.

Applying IPS' iDrawings P&ID solution, the operation company was able to convert 6 different standards into 1 P&ID standard, and identify more than 600 inconsistencies in standards, unify various asset tags, symbols, with an estimated direct cost saving of $400,000, and much more indirect costs saving which they are due to realize in operations and future capital projects.

The Challenge

1 Operation companies have different engineering standards due to historical engineering practices, large vendor packages, and business merging and requisitions

2 This creates a challenge for operation and maintenance management with inconsistent tagging, symbology & engineering data

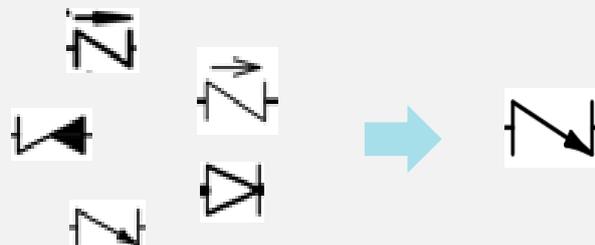**3** Additional work or rework for capital projects, upgrades or large revamp

4 A roadblock for digitalization or digital transformation

IPS Solution

iDrawing P&ID Six AI models were configured based on the different client's engineering standards to recognize tags, lines and symbols, with the output of the AI data consistent, as one single format. The data was reconnected into intelligent data set and loaded into one standard Smart Plant P&ID (SPP&ID) database with high accuracy (70 to 80%) before performing final touchup and QA.

Standardization of different symbols

AI automates P&ID conversion from 6 to 1 standard, with more than 50% cost and schedule savings.

iDrawings is an AI solution to digitalize engineering drawings (P&ID, electrical etc.). AI model is configurated based on customized standards to recognize and abstract drawing components (text, lines, symbols), and then regenerate intelligent drawings including intelligent P&IDs, tag lists and other engineering deliverables including MTO/BOM, linelist etc. with minimal 30 to 50% cost and schedule saving.

2 ~ 5 X Faster

1~ 5 man-hours/P&ID

30%~ 50% Cost Saving

Please contact us contact@ips-ai.com for more information and visit our website   www.ips-ai.com to request a demo