PIP DMDIM001
Instrumentation Metadata Requirements

Houston SPI LTUF PIP DMDIM001 IDTC SIG Progress Report

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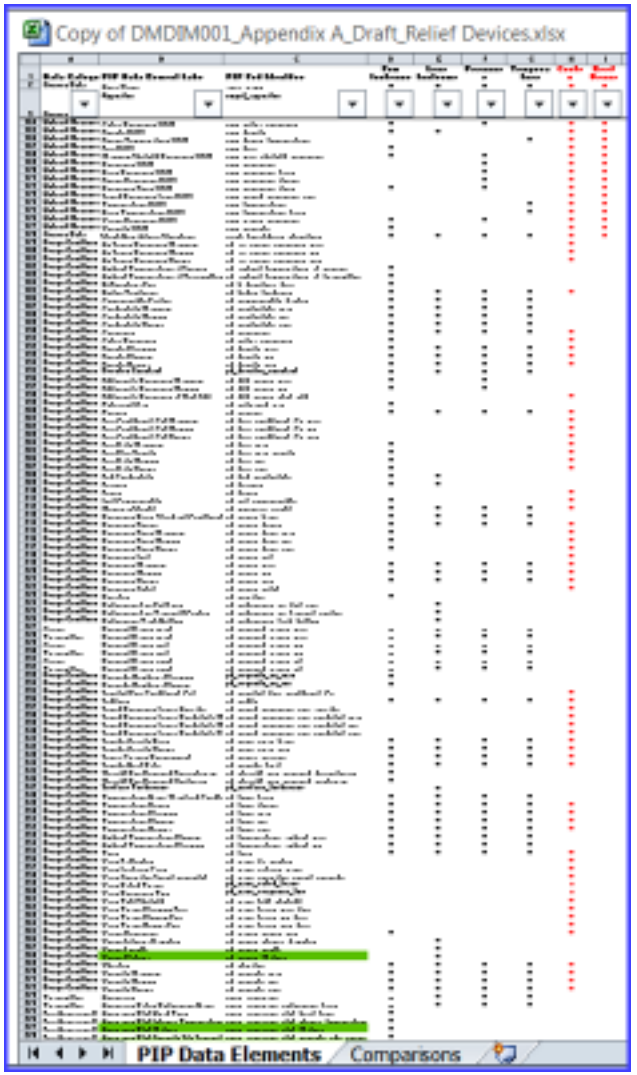
PIP DMDIM001 Houston SPI LTUF SIG

Instrument Design Tool Configuration (IDTC)

- SIG Data Field Identification Progress:
  - 816 total fields identified In the DMDIM001 Data Map
  - Process Data Fields
    - 110 Total Process Data Fields Required
    - 17 New Fields (Possible new SPI Process UDF Fields)
  - Flow Data Fields
    - 366 Total Flow Data Fields (-65 Process Data Fields)
    - 170 Unique to Flow (Possible new SPI Spec UDF Fields)
    - 50 New Fields Identified by SIG
  - Level Data Fields
    - 274 Total Level Data Fields (-50 Process Data Fields)
    - 111 Unique to Level (Possible new SPI Spec UDF Fields)
    - 38 New Fields Identified by SIG
  - Pressure Data Fields
    - 180 Total Pressure Data Fields (-42 Process Data Fields)
    - 11 Unique to Pressure (Possible SPI Spec UDF Fields)
    - 25 New Fields Identified by SIG
  - Temperature
    - 208 Total Temperature Fields (-41 Process Data Fields)
    - 156 Unique to Temperature (Possible new SPI Spec UDF Fields)
    - 20 New Fields Identified by SIG
  - Control Valve
    - 238 Total Control Valve Fields (-61 Process Data Fields)
    - 132 Unique Control Valves (Possible new SPI Spec UDF Fields)
    - 119 New Fields Identified by SIG
  - Relief Devices
    - 178 Total Relief Device Fields (-36 Process Data Fields)
    - 23 Unique to Relief Device (Possible new SPI Spec UDF Fields)
    - 134 New Fields Identified by SIG



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- Houston SPI LTUF IDTC SIG Completed Action Items:
  1. Identify data elements from list that exist in SPI
  2. Review, consolidate, expand list of data elements not in SPI
  3. Develop the New Control Valve data elements to the IDTC
  4. Develop the New Relief Devices data elements to the IDTC
- Houston SPI LTUF IDTC SIG Possible Future Action Items:
  1. Develop New Analyzer data elements for the IDTC
  2. Provide SIG Recommendations to the PIP DMDIM001 IDTC committee
  3. Provide recommended SPI schema changes to Hexagon PPM
     - Normalized Spec_UDF Mapping - or -
     - Provide Recommended Add_Spec Tables
  4. Correlate IDTC Data Table with ISA SPI Data Map
  5. Review and Recommendation of Standards for PIP DMDIM001 Inclusion:
     - ISO 15926 Parts 3-6 Reference, Implementation and Publishing
     - Namur Prolist NE100 Minimum Data Correlation
     - CFIHOS Handover Specification Correlation

PIP DMDIM001 Instrument Metadata Requirements

- Current Houston SPI LTUF SIG Members:

— Gene Haney, McDermott (SIG Chair)
— Bob Zerda, PIP
— Alex Koifman, ProLytX
— Betty Alexander, JGC
— Chris Cordes, Covestro
— Guillermo Vigna, Endress+Hauser
— John Dressel, Fluor
— Kory Johnson, Marathon
— Nezar Faitouri, Mangan, Inc.
— Brian Shefler, Flowserve
— Daryl Konen, WorleyParsons
— Dee Dee Honea, Eichleay
— Eric Rangel, Shell
— Ahmed Esaklul, McDermott
— Jose Farach, Oxy
— Lawrence Addison, Shell
— Maria Cunningham, Chevron
— Oliver Nava, Chevron
— Phillip Rumler, Endress+Hauser
— Scott Gallagher, Phillips 66
— Sharon Wildey, Bechtel

PIP DMDIM001 Instrument Metadata Requirements

- The efforts of this SIG are ongoing and intended to bring more consistency to the SPI Spec Data Dictionary and PIP DMDIM001
- Houston SPI LTUF PIP DMDIM001 IDTC SIG is seeking more members and participation in the SIG – Contact Gene Haney gene.haney@mcdermott.com