

<b>SmartPlant Instrumentation Technical User Forum P2C2 (Houston SPI TUF) Meeting</b>	<b>February 14, 2012 8:00 am ConocoPhillips</b>
---	---

<b>Attendees</b>	35 Members in attendance 8 Online	<b>Copied To</b>	Houston SPI LTUF Website
------------------	--------------------------------------	------------------	--------------------------

<b>Called By</b>	John Dressel	<b>Prepared By</b>	John Dressel with notes by Betty Alexander
------------------	--------------	--------------------	--

Item	Topic	Notes	Action/Due
1	Welcome to ConocoPhillips	<ul style="list-style-type: none"> <li>• David Land, ConocoPhillips gave safety moment and then announced that ConocoPhillips Downstream about to be spun off to Phillips 66 in 2012</li> <li>• SPI Usage at ConocoPhillips (Phillips 66) is in 4 refineries.</li> <li>• Spec sheets were developed based on ISA standard and uses OSI datasheets;</li> <li>• Question was asked if 2nd page Notes had out of the box Title block</li> </ul>	
2	Chairman's Notes	<ul style="list-style-type: none"> <li>• Up Coming Events:               <ul style="list-style-type: none"> <li>SmartPlant P&amp;ID Data Editor Webinar Tuesday, Feb 28, 2012 9:00 AM - 10:00 AM CST Advertised ... and recommended if 'we' use SPF</li> <li>Next Houston SPI LTUF Meeting – Jacobs John Bolmanski, Jacobs Tuesday, May 15, 2012 8:00 AM - 12:00 PM CST Same bldg as last time.</li> <li>SPI – SPEL Global TUF Meeting June 3, 2012 Intergraph @ HEXAGON 2012 June 4-7, 2012 MGM Grand Hotel and Casino Las Vegas, Nevada</li> </ul> </li> </ul>	
3	Introductions	<ul style="list-style-type: none"> <li>• All attendees Introduced themselves</li> </ul>	
4	Minutes	<ul style="list-style-type: none"> <li>• Minutes of 2011-11-08 meeting approved</li> </ul>	
5	Election	<ul style="list-style-type: none"> <li>• Election of SPI LTUF Officers               <ul style="list-style-type: none"> <li>○ Chairman John Dressel</li> <li>○ Vice-chair Gene Haney</li> <li>○ Secretary Betty Alexander</li> </ul> </li> <li>• Owner Operator Committee Chair               <ul style="list-style-type: none"> <li>○ Rick Graham nominated in absentia – to be decided at next O/O committee meeting</li> </ul> </li> </ul>	
6	Presentation	<p><b>SmartPlant Instrumentation Specsheets –</b> John Dressel, Fluor</p> <ul style="list-style-type: none"> <li>•</li> <li>•</li> </ul>	

Item	Topic	Notes	Action/Due
		<p>New SPI Spec Libraries</p> <ul style="list-style-type: none"> <li>• Petrochemical Spec Library (SPI 2009 Library for SPI 2007.zip)</li> <li>• Biopharma Spec Library (Biopharma_Spec_SPI 2007.zip)</li> <li>• Additional SPI Specification Libraries and Forms</li> <li>• SPI Specification Sheet Tips &amp; Tricks</li>   <li>• Petrochemical and Biopharma Spec Libraries <ul style="list-style-type: none"> <li>○ These libraries are included with SPI 2009, however they must be restored for use and will need Infomaker 11 Service Pack 2.</li> <li>○ These libraries will work in SPI 2007.6 and above. To install, use the Page Editor to open the Files and save as new Pages. Then create Forms from the Pages and use the SQL statement to create the required view.</li> <li>○ To obtain these libraries – submit a service request to Intergraph</li> </ul> </li>   <li>• SPI Petrochemical Spec Library <ul style="list-style-type: none"> <li>○ This library is made up of 101 .psr files that need to be assembled in different ways to build complete spec forms.</li> <li>○ This Library is based on ISA S20.1 but not sanctioned by ISA.</li> </ul> </li>   <li>• An example of a Control Valve Spec Form will involve: <ul style="list-style-type: none"> <li>○ Linear Control Valve Page or Rotary Control Valve Page - Combine the Selected Valve Mechanics page with the Process Spec Page and the Auxiliary Device Page resulting in a Spec Sheet that is three pages long and 330 data fields.</li> </ul> </li>   <li>• An example of a Flowmeter Spec Form will involve: <ul style="list-style-type: none"> <li>○ An Orifice Plate Assembly page and a Flow Process conditions page, Combined with a Pressure Transmitter Page resulting in a Spec Sheet that is three pages long for a simple Differential Pressure Flow Transmitter.</li> </ul> </li>   <li>• Issues with SPI Petrochemical Spec Library <ul style="list-style-type: none"> <li>○ While the ISO9000 Title Block is nice the Notes Page reverts to Out of the Box SPI Title Block</li> <li>○ Component Identification Areas are only associated to the database for one of the Component Types and do not contain the instrument Tag Numbers</li> <li>○ The Tag Number and P&amp;ID do not appear on every page</li> <li>○ The Forms are very complex to build and associate the proper pages to complete the required data</li> </ul> </li> </ul>	

Item	Topic	Notes	Action/Due
		<ul style="list-style-type: none"> <li>○ The page descriptions should give Form relationships and Process Function</li> <li>○ Some Pages have wasted space</li> <li>○ The resulting Forms are too complex and time consuming to fill out properly or transmit to vendors for sizing and selection</li> <li>○ The pages contain "N/A" or Non-functional fields with no value</li> <li>○ Blank lines with Header and Data areas do not allow data input</li> <li>● SPI Pharmaceutical Spec Library <ul style="list-style-type: none"> <li>○ This library is made up of 74 .psr pages that are stand alone forms. Features many new pages for specialty instruments</li> <li>○ Per CR#77777 ID#91 was implemented in SPI as add-in library</li> <li>○ Valve Spec Selections Include: <ul style="list-style-type: none"> <li>▪ 7101 - Temperature Regulator</li> <li>▪ 7102 - Pressure Flow Regulator</li> <li>▪ 7103 - Blanketing Regulator</li> <li>▪ 7201 - Ball Valve</li> <li>▪ 7202 - 4 Way Valve</li> <li>▪ 7203 - 3 Way Valve</li> <li>▪ 7204 - Diaphragm Valve</li> <li>▪ 7205 - Butterfly Valve On Off</li> <li>▪ 7206 - 3 Way Diverter Valve</li> <li>▪ 7207 - Sanitary Multi-port Valve</li> <li>▪ 7301 - Globe Valve</li> <li>▪ 7302 - Sanitary Control Valve</li> <li>▪ 7303 - Butterfly Control Valve</li> <li>▪ 7304 - V Ball Valve</li> </ul> </li> <li>○ Flowmeter Spec Selections include: <ul style="list-style-type: none"> <li>▪ 2501 - Coriolis Mass Flowmeter</li> <li>▪ 2502 - Magnetic Flowmeter</li> <li>▪ 2503 - Thermal Mass Flowmeter</li> <li>▪ 2504 - Turbine Flowmeter</li> <li>▪ 2505 - DP Transmitter flow</li> <li>▪ 2506 - Positive Displacement Flowmeter</li> <li>▪ 2507 - Vortex Flowmeter</li> <li>▪ 2508 - Ultrasonic Flowmeter</li> </ul> </li> </ul> </li> </ul>	

Item	Topic	Notes	Action/Due
		<ul style="list-style-type: none"> <li>○ Flow Element Selections include: <ul style="list-style-type: none"> <li>▪ 1101 Orifice Plate</li> <li>▪ 1102 Annubar</li> <li>▪ 1103 Rotameter</li> </ul> </li>   <li>○ Specialty Spec Selections include: <ul style="list-style-type: none"> <li>▪ 2610 - Total Organic Carbon Analyzer</li> <li>▪ 2609 - Optical Density Analyzer</li> <li>▪ 2611 - Turbidity Analyzer</li> <li>▪ 2701 - Weigh Systems, Load Cell</li> <li>▪ 2702 - Weigh Bench and Floor Scales</li> <li>▪ 2703 - Weigh Precision Scales</li> <li>▪ 4105 - Proximity for Bubble Trap</li> <li>▪ 5101 - Bi-metallic Temp Indicator</li> <li>▪ 7402 - Conservation Vent</li> <li>▪ 7401 - Rupture Disk</li> <li>▪ 7404 - Flame Arrestor</li> <li>▪ 9305 - Speed Transmitter</li> <li>▪ 1104 Venturi Tube</li> </ul> </li>   <li>● Pros of SPI 2007 Pharmaceutical Spec Library <ul style="list-style-type: none"> <li>○ ISO9000 Title Block blends with SPI Out of the Box but Notes Page reverts to Out of the Box Title Block</li> <li>○ P&amp;ID Number on every Spec Page</li> <li>○ Has a selection of specialty Spec forms that supplement the SPI Out of the Box Specs</li> <li>○ The library matches the ISA20 Excel Library for Pharmaceuticals</li> </ul> </li>   <li>Out of the Box Spec Libraries for SPI</li> <li>● SPI Out of the Box Specification Library Pros <ul style="list-style-type: none"> <li>○ Complete Library for most common Instruments</li> <li>○ Easily modified in SPI to fit most project specific needs</li> <li>○ Handles Single, Multi-Tag and Multi Item Specs</li> <li>○ Most SPI users are trained and skilled in the SPI Spec Library</li> </ul> </li>   <li>● SPI Out of the Box Specification Library Cons <ul style="list-style-type: none"> <li>○ Title Box is not ISO-9000 compliant (no check or approved)</li> <li>○ P&amp;ID number not on all Spec forms</li> <li>○ Forms have not been updated in several SPI versions</li> <li>○ Requires modifications to Specs on almost every project</li> </ul> </li> </ul>	

Item	Topic	Notes	Action/Due
		<ul style="list-style-type: none"> <li>• Houston SPI Spec Committee suggested library update in 2004               <ul style="list-style-type: none"> <li>○ Add ISO-9000 Title Box to all Out of the Box Spec Forms</li> <li>○ Add P&amp;ID Number to all Out of the Box Spec Forms among others...</li> <li>○ Reintroduced to Intergraph on February10, 2009 (see spi-Ituf.org archive)</li> <li>○</li> </ul> </li> <li>• Other Spec Libraries for SPI               <ul style="list-style-type: none"> <li>○ The Overload Services Inc. SPI Spec Library is made up of 135 Forms and is the most comprehensive spec Library for SPI</li> <li>○ Overload Services Inc. SPI Spec Library Pros                   <ul style="list-style-type: none"> <li>▪ Comes with OSI Seed file which is used by several Owner Operators</li> <li>▪ P&amp;ID Number on every Spec Page</li> <li>▪ Title Block is ISO-9000 compliant but Notes Page reverts to Out of the Box Title Block</li> <li>▪ Additional Specs available for Consolidated Relief Valves and Level Transmitter Calculations</li> </ul> </li> <li>○ Overload Services Inc. SPI Spec Library Cons                   <ul style="list-style-type: none"> <li>▪ Must be purchased from Overload Services Inc. as a standalone library or as part of a OSI SPI Seed file</li> <li>▪ Overload Services has also developed an ISA SPI Spec Library similar to the Petrochemical Spec Library above.</li> </ul> </li> </ul> </li> <li>• SPI Specification Sheet Tips &amp; Tricks               <ul style="list-style-type: none"> <li>○ Selection of Spec Libraries and Forms need to be based on your project needs. Each user and project is different and no single available Library will have every Spec Forms to fit all projects.</li> <li>○ A modified title box will not show up on the second notes page. An overlaid title box will show on the second sheet. If you modify a title box, create an overlay title box and associate it to sheets that use a second notes page or only use an overlaid title box.</li> <li>○ Always open InfoMaker with the Export icon in SPI to allow InfoMaker to open and link to the project database</li> <li>○ To provide a margin at the top of datasheet reports, set a parameter "TOPMARGIN = 250" in the INTOOLS.INI file [PRINTER] section.</li> <li>○ When adding a column to a spec page, Use the Page Editor in SPI to select an unused column. InfoMaker allows selection of columns that are already on the Spec.</li> <li>○ Enter the Form Numbers in the Description field of the</li> </ul> </li> </ul>	

Item	Topic	Notes	Action/Due
		<p>Page Editor so you know what forms a page is used on.</p> <ul style="list-style-type: none"> <li>○ When saving Spec Sheet pages to PDF files, Include the Form number in the filename. This makes them easier to recognize when searching for a particular type of Spec.</li> <li>○ Edit Title Block or Overlay Title Block to make ISO 9000 compliant Forms or add fields to make forms project or plant specific</li> <li>● Create your own Notes Page               <ul style="list-style-type: none"> <li>○ Move notes to Second Page</li> <li>○ Allows title customizing</li> <li>○ Add Large Notes</li> <li>○ Add Process Notes</li> <li>○ Eliminate the need to “Print Notes on separate sheet”</li> <li>○ Edit Title Block for ISO-9000 compliant second Page</li> <li>○ Add your Notes Page to Control Valve and other Spec forms with small Notes area on first page</li> </ul> </li> <li>● Spec Browser Data Dictionary               <ul style="list-style-type: none"> <li>○ SPI Out of the Box Spec Data Dictionary settings are reversed</li> <li>○ In the Spec data dictionary select only the spec_sheet_data for Templates, All tables for Browser and All but component for IEE</li> <li>○ Change the headers in the Spec data dictionary to make more sense and shorten to fit the browser area.</li> <li>○ For blank lines on a spec, Name the headers with the line number instead of Spec_udf numbers. This will make more sense in the browser</li> </ul> </li> <li>● To print spec sheets filtered on a specific field:               <ul style="list-style-type: none"> <li>○ Create and Name a filter in a Spec Browser View</li> <li>○ Select the Named filter from the “Find” dialog box and select the Specs you wish to print.</li> </ul> </li> </ul>	
7	Presentation	<p><b>PIP Specification Sheets</b> Sharon Wildley, GE &amp; Louis Archuleta, Aramco</p> <ul style="list-style-type: none"> <li>● To print spec sheets filtered on a specific field:</li> <li>● PIP Proposal for new Practice - Proposed Title: Instrument Data Harmonization – Configuration of SmartPlant Instrumentation (SPI)</li> <li>● Disclaimer – The initial practice would focus on SmartPlant Instrumentation, however it would not preclude use by companies using other vendor’s, or in-house developed, software.</li> <li>● Process Industry Practices</li> <li>● A consortium of companies sharing the goal of reducing plant costs through development and implementation of common industry practices for detailed design,</li> </ul>	

Item	Topic	Notes	Action/Due
		<p>construction, procurement, operation, and maintenance of manufacturing facilities.</p> <ul style="list-style-type: none"> <li>• PIP Member Consortium <ul style="list-style-type: none"> <li>○ Seventeen members established PIP in 1993.</li> <li>○ Self-funded under CII.</li> <li>○ Now includes 62 process industry companies:</li> <li>○ 35 owners</li> <li>○ 27 EPC contractors</li> <li>○ Represents a significant share of the industry.</li> </ul> </li> <li>•</li> <li>• PIP Member Companies – Owners <ul style="list-style-type: none"> <li>○ 3M</li> <li>○ Aramco Services</li> <li>○ Archer Daniels Midland</li> <li>○ Arkema Inc.</li> <li>○ Ascend Performance Materials</li> <li>○ BP</li> <li>○ Celanese</li> <li>○ Chevron</li> <li>○ Citgo</li> <li>○ ConocoPhillips</li> <li>○ DuPont</li> <li>○ Eastman Chemical</li> <li>○ Evonik Degussa</li> <li>○ Flint Hills Resources</li> <li>○ FMC</li> <li>○ Hess Corporation</li> <li>○ Holly/Frontier</li> <li>○ Honeywell</li> <li>○ Huntsman</li> <li>○ Kemira</li> <li>○ Momentive</li> <li>○ Monsanto</li> <li>○ Mosaic Fertilizer</li> <li>○ Occidental Oil &amp; Gas</li> <li>○ Pasadena Refining</li> <li>○ PPG</li> <li>○ REC Silicon</li> <li>○ Rentech Inc.</li> <li>○ SABIC</li> <li>○ Sekisui</li> <li>○ Solutia</li> <li>○ Sunoco</li> <li>○ Tesoro Corp.</li> <li>○ UOP</li> <li>○ Western Refining</li> </ul> </li> <li>• PIP Member Contractor Companies <ul style="list-style-type: none"> <li>○ Ambitech Engineering</li> <li>○ BE&amp;K (a KBR Company)</li> <li>○ Bechtel</li> </ul> </li> </ul>	

Item	Topic	Notes	Action/Due
		<ul style="list-style-type: none"> <li>○ Braskem America Inc.</li> <li>○ Brinderson LP</li> <li>○ Burns &amp; McDonnell</li> <li>○ CB&amp;I</li> <li>○ CDI Engineering Solutions</li> <li>○ CH2M HILL</li> <li>○ Chemtex International</li> <li>○ ENGlobal Engineering Inc.</li> <li>○ Fluor</li> <li>○ GE Energy</li> <li>○ Jacobs Engineering</li> <li>○ KBR</li> <li>○ Kvaerner</li> <li>○ Merrick &amp; Company</li> <li>○ Middough Inc.</li> <li>○ S&amp;B E&amp;C, Ltd.</li> <li>○ SAIC (SEE&amp;I)</li> <li>○ Samsung Engrg. America Inc.</li> <li>○ Shaw Energy &amp; Chemicals Group</li> <li>○ SK Engineering &amp; Construction</li> <li>○ SNC-Lavalin E&amp;C, Inc.</li> <li>○ Technip USA</li> <li>○ URS Corporation</li> <li>○ WorleyParsons Ltd.</li>   <li>● PIP Licensees <ul style="list-style-type: none"> <li>○ API</li> <li>○ ASME</li> <li>○ Autodesk</li> <li>○ Bentley Systems, Inc.</li> <li>○ Codeware Inc.</li> <li>○ ConcepSys Solutions</li> <li>○ IEEE</li> <li>○ IHS</li> <li>○ Intergraph</li> <li>○ ISA</li> <li>○ Lee College</li> <li>○ National Institute of Building Sciences</li> <li>○ National Insulation Association</li> <li>○ Palomar College</li> <li>○ PI/FlexPLANT</li> <li>○ St. Paul Technical College</li> <li>○ Texas A&amp;M Corpus Christi</li> <li>○ Thomson Reuters/Techstreet</li> <li>○ University of North Dakota</li> </ul> </li>   <li>● New Practice – Goals &amp; Objectives <ul style="list-style-type: none"> <li>○ Develop a PIP Practice which is based on the harmonization of existing company specific SPI configurations, Specification Sheets, and implementation standards</li> <li>○ Standardize the configuration of SmartPlant Instrumentation tables/fields</li> <li>○ Facilitate communication and sharing of data between companies.</li> <li>○ Create a Generic Practice where the receiving company could be a user of SPI, or any other database or</li> </ul> </li> </ul>	



Item	Topic	Notes	Action/Due
		<p>spreadsheet, and still take advantage of the standard setup contained in this practice.</p> <ul style="list-style-type: none"> <li>○ Develop a standard numbering scheme for specification templates</li> </ul> <ul style="list-style-type: none"> <li>● Justification for the new Practice <ul style="list-style-type: none"> <li>○ Current Issues in the industry: <ul style="list-style-type: none"> <li>● More Owner/Operators are requiring the handover of the SPI database from the EPC or other contractors</li> <li>● No industry standard for required Instrument data</li> <li>● No industry specification of the configuration of User Defined Fields (UDF) or within SPI</li> <li>● Many projects are done by multiple EPCs, however the Owner needs a consolidated database in a single format. This practice would provide each company the ability to use their own setup during the project phase, yet establish a standard format for the turnover database</li> </ul> </li> <li>○ Current Practices define instrument specification sheets, but do not address how to connect the data contained in them to an instrumentation database.</li> </ul> </li> <li>● Next Steps ... <ul style="list-style-type: none"> <li>○ Meet with your PIP Steering team or Process Controls Function team member to let them know if you support this proposed PIP Practice</li> <li>○ Let us (and them) know if you are interested in being on the Practice development team</li> <li>○ Let us know what the basis is for your current specification sheets (i.e., Intergraph OOTB, ISA, Company designed, etc.)</li> <li>○ Let us know if you are willing to provide an Excel (no calculations please) or .pdf of your companies standard Specification sheets, plus their current mapping in SPI.</li> </ul> </li> <li>● IMPORTANT NOTE: We will not include any calculations. This information is for data dictionary purposes only.</li> <li>● Benefits <ul style="list-style-type: none"> <li>○ Provide Intergraph a set of Specifications Sheets which they can deliver OOTB that are compatible with an integrated environment.</li> <li>○ Harmonization of instrument data similar to the philosophy of ISO 15926 in a much simpler SPI compatible format</li> <li>○ Create a common set-up for SPI which Owners, Contractors and EPCs can agree on as a starting point for project closeout data transfer.</li> <li>○ Enable SPI users to write only one publish/retrieve adapter to exchange data with all companies who also create a PIP compatible adapter</li> </ul> </li> </ul>	

Item	Topic	Notes	Action/Due
		<ul style="list-style-type: none"> <li>• Room-comment:               <ul style="list-style-type: none"> <li>○ This was done once before by ISA to Normalize their Specs/Forms but the data dictionary was not issued as there is no common exchange ~ Still in Draft Format.</li> <li>○ Fluor &amp; others have already mapped SPI to SPF, finding SPI/SPP&amp;ID fields and are asking Intergraph for more common fields,</li> <li>○ Owner Operators were asked how their impact will be.</li> <li>○ SPI used in multiple industries, not just PetroChem &amp; Pharma. How will 'We' PIP or Intergraph delve into the cross into mapping data? ISO 15926 and NE100 need to be worked in conjunction.</li> <li>○ Frank Joop of Intergraph is OPEN to the PIP library, and Power Forum is interested in PIP</li> <li>○ PIP may ask for Common field, for designated data, or specific assigned UDF as standard.</li> </ul> </li> <li>• Question and Answer               <ul style="list-style-type: none"> <li>○ How does the other using PIP standards, industries affect the other SPI users; mining, canning?</li> <li>○ Getting into an integrated environment makes it more important to address these issues.</li> <li>○ Most of PIP specs are narrative; now does it affect the use of data-centric spec forms? They will automate the PIP specs to become data-centric.</li> <li>○ Jacobs is part of the PIP, requested contact information.</li> <li>○ Ideally, they want Intergraph to come with the fields;</li> </ul> </li> </ul>	
8	Demonstration	<p><b>SPI Spec New Features</b> - Sam Williams, Intergraph</p> <ul style="list-style-type: none"> <li>• New Spec Views and Browsers.               <ul style="list-style-type: none"> <li>○ Historically Customized Specs cannot arbitrarily Add Tables, as Regeneration may break linkage.</li> <li>○ When the New View works to join tables it is READ ONLY Data.</li> <li>○ Demo in MS SQL ... Created View, assigned Primary Key (component) from both separate tables</li> <li>○ Launched SPI Admin, Add Views, Custom Table in example UDT ...</li> <li>○ Put sample data into SPI, Add view to Spec Module.</li> <li>○ Re-generated sample Spec, Edited to. PageEditor Custom View available. Edit Column List.</li> <li>○ Add name of field, and description. Example concludes as View Added distant Table data to Spec.</li> <li>○ Some Views are delivered as Out-Of-Box ...</li> <li>○ SQL background needed</li> <li>○ Works per domain and will not survive a backup/reinitialization from Watcom</li> <li>○ Must be rebuilt after rebuilding procedures and triggers.</li> </ul> </li> </ul>	

Item	Topic	Notes	Action/Due
		<ul style="list-style-type: none"> <li>• Aside: According to Sam ~ His Group should confirm each Script from Checkdb - Users should NOT run the Checkdb scripts without verification.</li>   <li>• Multi-Form Browser. <ul style="list-style-type: none"> <li>○ Spec DD, forms 1 &amp; 8 in demo. Ensure Browser fields checked in both.</li> <li>○ Wizard in Spec module to define a Multi-Form Browser. Allow selection of Which forms, which fields.</li> <li>○ Views created in Spec Module are now avail in browser manager.</li> <li>○ View in Manager shows it's non-editable.</li> <li>○ But Opened View, shows some fields are cross-editable,</li> </ul> </li>   <li>• Questions: Is there Documentation on views to create? None to date.</li> </ul>	
9	Presentation	<p><b>SmartPlant Instrumentation - Roadmap</b> - Frank Joop, Intergraph</p> <ul style="list-style-type: none"> <li>• SPI v.2009 SP3 (Released October 24th 2011)</li> <li>• Lower cost of ownership <ul style="list-style-type: none"> <li>○ Hot Fix delivery mechanism automated (Smart Upgrade)</li> <li>○ More stability and new look and feel of the UI (Tab view, text + icon)</li> <li>○ Maintain the robustness of the product achieved in v.2009</li> </ul> </li> <li>• Productivity / Differentiator / Innovation <ul style="list-style-type: none"> <li>○ AutoCAD 2009, 2010 and 2011 supported</li> <li>○ Ability to save files from InfoMaker v.12 to support SPI v.2007 and up</li> <li>○ Support multiple lines per instrument (with integration with SPP&amp;ID and SP3D)</li> <li>○ Multiple Piping lines per instrument (Upstream and Downstream)</li> <li>○ Marco Expansion - The ability to automatically expand all necessary instruments from simplified P&amp;ID</li> </ul> </li>   <li>• SPI v.2009 SP4</li> <li>• Add ability to batch print Hook-up drawings based on flexible criteria - enable batch print Hook-up drawings using flexible user definable criteria, so that required Hook-up document packages can be quickly, efficiently and easily prepared</li> <li>• Provide enhanced batch loop duplication mechanism (same as the loop rename functionality)</li> </ul>	

Item	Topic	Notes	Action/Due
		<ul style="list-style-type: none"> <li>• Allow view specs/Calculations/PD from different units in the Domain Explorer</li> <li>• Import utility - create cables with complete structure using reference cable type identification <ul style="list-style-type: none"> <li>○ To have the ability to import a new plant cable to SPI based on the reference cable name</li> <li>○ The mechanism should copy the reference cable from the reference data and name the cable according to the source (the cable name in the external file)</li> </ul> </li> <li>• Consolidated Multi Strip Report- Showing selectable panels, their interconnections and each of their adjacent equipment.</li> <li>• Ability to produce specification comparison report between: <ul style="list-style-type: none"> <li>○ Current Vs. All archived specification</li> <li>○ Any two archived specification.</li> </ul> </li> <li>• Integration</li> <li>• Increase Performance &amp; Memory usage ( Large dataset &amp; batch operations) for publish, retrieve and batch revisions <ul style="list-style-type: none"> <li>○ Publish of SPI large dataset</li> <li>○ Capability to publish instruments from plant level (not only unit)</li> <li>○ Improve performance when publishing / retrieve documents</li> <li>○ Revise multiple Spec Sheets in SPI in integrated environment</li> <li>○ Eliminate the creation of meaningless “update” tasks in the to-do-list</li> </ul> </li> <li>• Honeywell DCS bidirectional integration support.</li> <li>• Ability to integrate CHARM configuration.</li> <li>• SPI 2013 Tomorrow</li> <li>• Productivity/Differentiator/Innovation</li> <li>• Supporting Oracle 11</li> <li>• Integration enhancements and improvements <ul style="list-style-type: none"> <li>○ To Do List &amp; General architecture <ul style="list-style-type: none"> <li>▪ Approving Inconsistencies</li> <li>▪ Add Ability to Customize, Sort and filtering Data to the To Do List.</li> </ul> </li> </ul> </li> <li>• Browser Wizard / Query Bilder</li> <li>• Add separate access rights to Instrument Index supporting tables</li> <li>• and other more driven by the users and market demands</li> </ul>	

Item	Topic	Notes	Action/Due
		<p><b>SmartPlant Instrumentation - From Smart Query Builder to Innovative Browser module and beyond</b></p> <ul style="list-style-type: none"> <li>• Smart Query Builder (first milestone) - allows users to create instantly any possible query from SPI <ul style="list-style-type: none"> <li>○ No need to know the SPI data model</li> <li>○ Simple to use and provide engineering and design context</li> </ul> </li> <li>• Replace the needs of Infomaker</li> <li>• Browser module will be able to use the smart query instead of customize browser</li> <li>• In future plans to expand beyond and be platform to other modules of SPI, as well for other E&amp;S applications</li> </ul> <p><b>SmartPlant Instrumentation - Top TUF Ranked CRs</b></p> <ul style="list-style-type: none"> <li>• Of the 5 Top Ranked CR from the CR ranking website.</li> <li>• Two have been Implemented and released in SPI 2009 SP1</li> <li>• Two are scheduled for v.2013 (Planned for Q1, 2013)</li> <li>• One will be scheduled for v.2013 future SP</li> </ul>	
10	Presentation	<p><b>Protective Systems Lifecycle Management and IPL Data Repository – A database solution</b></p> <p>- Nigel James, Mangan</p> <ul style="list-style-type: none"> <li>• <b>Agenda</b> <ul style="list-style-type: none"> <li>○ What is the OSHA requirements for Safety Lifecycle Management</li> <li>○ What are the data management challenges</li> <li>○ How does SPI fit in</li> <li>○ Important data fields to manage within SPI and other software</li> <li>○ Quick Demo</li> </ul> </li> <li>• <b>OSHA – 1910.119</b></li> <li>• Process Safety Management of Highly Hazardous Chemicals <ul style="list-style-type: none"> <li>○ Process Safety Information (d)(3)(iii) <ul style="list-style-type: none"> <li>▪ “For existing equipment designed and constructed in accordance with codes, standards, or practices that are no longer in general use, the employer shall determine and document that the equipment is designed, maintained, inspected, tested and operating in a safe manner</li> </ul> </li> </ul> </li> </ul>	

Item	Topic	Notes	Action/Due
		<ul style="list-style-type: none"> <li>○ Operating Procedures (f)</li> <li>○ Training and Training Documentation (g)</li> <li>○ Pre-Startup Safety Reviews (PSSR) (i)</li> <li>○ Mechanical Integrity (j) <ul style="list-style-type: none"> <li>▪ Inspection and Testing Requirements</li> <li>▪ Maintenance Training</li> <li>▪ Test Frequency</li> </ul> </li> <li>○ Management of Change (MOC) (l)</li> <li>○ Compliance Audits (o)</li> <li>○ Recognized and Generally Accepted Good Engineering Practices (RAGAGEP) (d)(3)(ii)</li> </ul> <ul style="list-style-type: none"> <li>● <b>S-84 Regulations - Origins and Evolution</b></li> <li>● Regulation and Standards move from a Prescriptive to a Performance basis</li> <li>● OSHA – 1910.119 Process Safety Management of Highly Hazardous Chemicals</li> <li>● IEC 61511 (International Electrotechnical Commission) <ul style="list-style-type: none"> <li>○ Recognized as world standard on Safety Instrumented Systems</li> </ul> </li> <li>● 1996 ISA (Instrument Society of America) issued standard S84 <ul style="list-style-type: none"> <li>○ “Application of Safety Instrumented Systems for the Process Industries”</li> </ul> </li> <li>● Then adopted by ANSI – now replaced by ANSI / ISA S84 - 2004 <ul style="list-style-type: none"> <li>○ Achieve performance thru analysis of hazards and protection using tools such as LOPA</li> <li>○ Contains a grandfather clause not part of IEC61511 for existing equipment</li> <li>○ Specifies aspects of a Safety Lifecycle for covered systems</li> </ul> </li> <li>● OSHA linkage (November 29, 2005 ) <ul style="list-style-type: none"> <li>○ Recognized ISA S84 as representing good practices for protective instrumentation</li> <li>○ 29CFR1910.119 includes ID &amp; managing instrumented systems for safe operation</li> <li>○ <a href="http://www.osha.gov/pls/oshaweb/owadisp.show_document?p_table=INTERPRETATIONS&amp;p_id=25164">http://www.osha.gov/pls/oshaweb/owadisp.show_document?p_table=INTERPRETATIONS&amp;p_id=25164</a></li> </ul> </li> <li>● <b>What is The Challenge?</b> <ul style="list-style-type: none"> <li>○ Lack of continuity across three departmental groups:</li> <li>○ No single Software package to bridge the gap</li> <li>○ Data is not Direct Coupled</li> </ul> </li> </ul>	

Item	Topic	Notes	Action/Due
		<ul style="list-style-type: none"> <li>• <b>So what should we capture in SPI ?</b></li> <li>• Key devices for PSM <ul style="list-style-type: none"> <li>○ Safety related services.</li> <li>○ Severe or toxic services.</li> <li>○ Environmental protective or reporting services</li> </ul> </li> <li>• CONSISTENT Identification of instruments and loops <ul style="list-style-type: none"> <li>○ SIF – safety integrated functions</li> <li>○ BPCS – basic process control system</li> <li>○ SRA – safety related alarms (stoooped using the word “critical”)</li> <li>○ RV – relief valves</li> </ul> </li> <li>• Specification data for pressure containing parts – <ul style="list-style-type: none"> <li>○ pressure and temperature operating conditions</li> <li>○ pressure containing parts pressure and temperature ratings</li> </ul> </li> <li>• (i.e. valve bodies, transmitter bodies, but also includes level chambers, instrument piping and tubing specs, analyzer sample systems, etc. )</li> <li>• <b>Thoughts for SPI and ProSysDR Interface</b></li> <li>• From SPI to ProSysDR Interface: <ol style="list-style-type: none"> <li>1. To identify the SPI Instruments (Tags), we can use the SPI Criticality and Category tables or use the UDT tables.</li> <li>2. Possibility of including control system tag to use the CS tag UDF fields.</li> <li>3. Excel to be used to upload to ProSysDR using the adaptor module.</li> </ol> </li> <li>• From ProSysDR to SPI Interface: <ol style="list-style-type: none"> <li>1. Any information can be transferred; however, the customer will have to identify the data and where to store in SPI.</li> <li>2. A module can be built in ProSysDR for SPI interface where the user will have to define the fields for the interface.</li> <li>3. Excel to be used to upload to SPI using the import module.</li> </ol> </li> </ul>	
11	Presentation	<p><b>Owner Operator Committee Report</b></p> <p>Jim Federline, Committee Chair</p> <ul style="list-style-type: none"> <li>• The Owner Operator Committee now has: <ul style="list-style-type: none"> <li>○ 33 members</li> <li>○ Representing 21 companies</li> <li>○ And continuing to grow</li> </ul> </li> <li>• Meetings held every 2 months via teleconference.</li> </ul>	

Item	Topic	Notes	Action/Due
		<ul style="list-style-type: none"> <li>• Meeting topics are suggested by Owner/Operator committee members.</li> <li>• Members volunteer to make presentations to share their knowledge and experience on selected subjects</li> <li>• Topics of Last two meetings: <ul style="list-style-type: none"> <li>• July 19, 2010 <ul style="list-style-type: none"> <li>○ Update on Fluke calibrator interface and Infomaker utility – Zur Bar</li> <li>○ O/O Concerns – John Dressel of Flour</li> </ul> </li> <li>• September 20, 2011 <ul style="list-style-type: none"> <li>○ CAD Capabilities of SPI – John Dressel of Flour</li> </ul> </li> </ul> </li> <li>• Next O/O Meeting: Tuesday, December 6, 2011 from 9 – 11 AM CST via teleconference using Intergraph’s facilities. <ul style="list-style-type: none"> <li>○ Agenda: <ul style="list-style-type: none"> <li>▪ SPI Query Tools to simplify data access by the casual user</li> <li>▪ SmartPlant Explorer - Intergraph</li> <li>▪ SmartPlant Foundation Web Browser – Fred Pollard of Syncrude</li> <li>▪ Review of SP3 and Update of SPI Roadmap – Guy Masin of Intergraph</li> </ul> </li> </ul> </li> </ul>	
12	Forum Topics	<ul style="list-style-type: none"> <li>• Change Request Ranking Website <ul style="list-style-type: none"> <li>○ Room-Requested WORKAROUND field or checkbox on the site (currently folk use Notes)</li> </ul> </li> <li>• SmartPlant Foundation SPP&amp;ID and SPEL Interfaces Open Discussion <ul style="list-style-type: none"> <li>○ Few Use it now, few more planning. Suggesting we CR to Leverage Fixes for integration to SPF</li> <li>○ SPF has had significant Version improvements lately</li> <li>○ SPF relies on higher quality info from other tools like SPI &amp; SPPID ... must standardize better input</li> <li>○ Ownership of Data is at issue, as well as revision tracking and change tracking.</li> <li>○ Intergraph has Documented ‘Working’ Workflows for tools like SPI, SPPID, etc ... on eCustomer site</li> <li>○ Sam may send ‘us’ Link to where the Workflows are: creating Instruments, Indexes, shortcomings, pitfalls</li> <li>○ WE also need the integration of People and Groups within our Companies to Coordinate the Tool Directions. Fluor has Group with top down support. Honeywell has Engineering Excellence</li> </ul> </li> </ul>	



Item	Topic	Notes	Action/Due
		<ul style="list-style-type: none"> <li>○ If SPF is too Big for small projects ... the Individual SPI&lt;-&gt;SPPID interfaces Still work , with SAME Intergraph publish/retrieve calls/functions.</li> <li>• Intergraph Pushing Again ... LinkedIn (hypothetically users can Turn Off emails and get 'digests'.</li> <li>• Action: All Attendees</li> <li>• Owner/Operator Committee: Great Presentations, and useful for general populace.</li> <li>• FrankJoop: Looking for Speakers – get Free registration to conference ... 'we' choose the topic</li> <li>• Workshop Ideas requested by Friday: Import Module, Multi-Item Specs, Enhanced Reports, Documenting New Technology (Wireless/Charms), Merger Utility (need special License for it), Asset Management System, Sonic Monitoring, Telecom Module Access Rights and creation of Devices.</li> <li>•</li> </ul>	
13	Close	<ul style="list-style-type: none"> <li>• Next Meeting - May 15, 2012 at Jacobs</li> <li>• John Dressel closed meeting</li> </ul>	