

SmartPlant Instrumentation Technical User Forum P2C2 (Houston SPI TUF) Meeting	August 11, 2011 8:00 am AMEC paragon
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Attendees	31 Members in attendance 4 Online	Copied To	Houston SPI LTUF Website
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Called By	John Dressel	Prepared By	John Dressel with notes by Andrew Kunev
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Item	Topic	Notes	Action/Due
1	Welcome to AMEC	<p>Betty Alexander - extended a welcome to all visitors and started a safety presentation then Andy Sallis, AMEC President of Oil & Gas Americas gave a presentation “Introduction to AMEC”</p> <ul style="list-style-type: none"> • AMEC at a glance: <ul style="list-style-type: none"> ○ FTSE 100 company: Market cap* c.£3.9 billion ○ Revenues: Almost £3 billion ○ Employees: c.25,000 ○ Net cash at 31 December 2010: £740 million 	
2	Chairman's Notes	<ul style="list-style-type: none"> • Thanked Andy Sallis and Betty Alexander of AMEC for Hosting this 3rd Quarter SPI LTUF Meeting. • Because of the amount of material we will be covering in this meeting a couple of items that we usually cover have been dropped from this meetings agenda. <ul style="list-style-type: none"> • First is the Owner Operator committee report. The committee is alive and well and will continue to meet with items of special interest to the Owner Operator SPI Users. • Second is the CR Ranking report. I continue to monitor the CR ranking website and will give a report in the next meeting on what CRs rank highest and need to be sent to Intergraph • The Global TUF meeting at HEXAGON in Orlando on June 5 went very well with over 40 member users attending from around the world. • One element that was introduced at the conference was for the LTUF to have a web forum for the TUF so users could connect and communicate among themselves. To that end Nicole Brlek, of Intergraph has created a privet LinkedIn group "SmartPlant Instrumentation" that is an invitation only group. This will allow us to have a forum without the danger of getting spammed. If you would like an invitation to join the group, contact me and I will pass your request on to Nicole. 	
3	Minutes	<ul style="list-style-type: none"> • Minutes of last meeting approved 	
4	Presentation	Overload Services Inc. SPI Training Services – Rockey McClish, OSI	

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		<p>OSI TRAINING SERVICES</p> <p>Off-Site</p> <ul style="list-style-type: none"> • Come to our location with a prepared learning environment, which can accommodate up to 18 students. (More upon request) • We offer all Standard Intergraph Courses, as well as customized training solutions to meet your needs. <p>On-site</p> <ul style="list-style-type: none"> • We can send a Trainer out to your location to conduct a Standard, or custom class. • We can assist with the installation remotely, or come out to your site before the class, and help with the installation for an additional fee. <p>TINT1001 – SMARTPLANT INSTRUMENTATION FOR USERS</p> <p>Prerequisites</p> <ul style="list-style-type: none"> • Basic industry knowledge in instrumentation. • Familiarity with Microsoft Windows & Windows applications. <p>Length: 4.5 Days</p> <p>Contact Intergraph or OSI for current prices, & available dates.</p> <p>Topics Covered:</p> <ul style="list-style-type: none"> • System and Project Administration Overview • Instrument Index • User Report Interface • Process Data • Calculations • Specifications • Wiring • Loop Diagrams • Hookups (Installation Details) <p>TINT1003 – SMARTPLANT INSTRUMENTATION INSTALLATION & SYSTEM ADMINISTRATION</p> <p>Prerequisites</p> <ul style="list-style-type: none"> • Familiarity with Microsoft Windows & Windows applications. • Familiarity with relational database concepts. <p>Length: 2 days.</p> <p>Contact Intergraph or OSI for current prices, & available dates.</p> <p>Topics Covered:</p> <ul style="list-style-type: none"> • SmartPlant Instrumentation installation • DBSetup Utility • Project Initialization • Use of SmartPlant License Manager (SPLM) for License Control 	

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		<ul style="list-style-type: none"> • Upgrades • Administration Options and User Management • Internal Setup Utility • ERD and database project data relationships • Database structure for as-built domains • Introduction to Infomaker • Overview of deployment options <p>TINT1004 – SMARTPLANT INSTRUMENTATION CUSTOMIZATION & DATA MANAGEMENT</p> <p>Prerequisites</p> <ul style="list-style-type: none"> • Completion of TINT1001, or strong familiarity of SmartPlant Instrumentation. • Basic industry knowledge in instrumentation. • Familiarity with Microsoft Windows & Windows applications. <p>Length: 2.5 Days Contact Intergraph or OSI for current prices, & available dates.</p> <p>Topics Covered:</p> <ul style="list-style-type: none"> • SmartPlant Instrumentation database overview • Introduction to Infomaker • Creating and Customizing reports in Infomaker • Customizing specifications internally and using Infomaker • Setting up MS Access for Reporting • Creating customized Browsers • Data Import • Use of Merger Utility • Interfaces – P&ID, DCS, vendor calculation software • External Spec Editor • Overview of API • Overview of interface with SAP R/3 • Revisions and revision control <p>TINT1005 – SMARTPLANT INSTRUMENTATION UPDATE TRAINING V.2009</p> <p>Prerequisites</p> <ul style="list-style-type: none"> • Completion of TINT1001, or strong familiarity of SmartPlant Instrumentation. • Basic industry knowledge in instrumentation. • Familiarity with Microsoft Windows & Windows applications. <p>Length: 2 days Contact Intergraph or OSI for current prices, & available dates.</p> <p>Topics Covered:</p> <ul style="list-style-type: none"> • Practical considerations and requirements for upgrade 	

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		<p>to version 2009</p> <ul style="list-style-type: none"> • New library of spec forms • Cross-form Mapping (multi-specification form browser) • Defining page size for a multi-tag specification page • Additional fields added to the Index Browser View • User-defined macro functions for SmartLoop Macros • Enhancements in custom loop generation • Updated Pipe Standards table in Process Data Module • Calibration Module enhancements • Changing Fieldbus tags back to conventional • Administration Module enhancements and additions • Enhancements to the SmartPlant Instrumentation interfaces <p>TINT1006 – SMARTPLANT ADVANCED WIRING & REPORTING</p> <p>Prerequisites</p> <ul style="list-style-type: none"> • Completion of TINT1001, or strong familiarity of SmartPlant Instrumentation. • Basic industry knowledge in instrumentation. • Familiarity with Microsoft Windows & Windows applications. <p>Length: 4.5 Days</p> <p>Contact Intergraph or OSI for current prices, & available dates.</p> <p>Topics Covered:</p> <ul style="list-style-type: none"> • Using new wiring equipment entities to create “real world” panel layouts • Panel location and hierarchy setup • Working with Explorers – Domain, Reference, Wiring, and Loop • Networked wiring design – Foundation Fieldbus, Profibus, and HART devices wiring (optional) • Room, Panel, and Rack Layout drawing creation • Customization of SmartPlant Report Generation Symbols • Expanded Fieldbus design. <p>TINT1007 – SMARTPLANT INSTRUMENTATION OPERATING OWNER TRAINING</p> <p>Prerequisites</p> <ul style="list-style-type: none"> • Completion of TINT1001 • Completion of TINT1003 • Completion of TINT1004 • Basic industry knowledge in instrumentation. • Familiarity with Microsoft Windows & Windows applications. <p>Length: 2 Days</p>	

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		<p>Contact Intergraph or OSI for current prices, & available dates.</p> <p>Topics Covered:</p> <ul style="list-style-type: none"> • Enabling Operating Owner Domain • Creating and Scoping Projects • Claiming Entities to a Project • Manipulating Entities in a Project • Merging Entities from a Project to As-Built • Deleting a Project <p>TINT1065 – INFOMAKER CUSTOMIZATION</p> <p>Prerequisites</p> <ul style="list-style-type: none"> • Basic industry knowledge in instrumentation. • Completion of TINT1001 • Completion of TINT1004 • Basic knowledge of relational databases • Familiarity with Microsoft Windows & Windows applications. <p>Length: 2 days</p> <p>Contact Intergraph or OSI for current prices, & available dates.</p> <p>Topics Covered</p> <ul style="list-style-type: none"> • Standard operations in Infomaker • Database Connections • Libraries • Queries and Reports in Infomaker • Using PSR files with SPI • Creating executable reports • Specification customization • Customizing Title Block <ul style="list-style-type: none"> ○ Using SP_STYLE.PBL ○ Customizing Spec Forms within SPI ○ Customizing Spec Forms with Infomaker • Creating custom Powersoft Browser • Instrument Index Browse customization <p>OSI CUSTOM TRAINING</p> <ul style="list-style-type: none"> • We can tailor a training class to fit your company's needs, choosing material from any of the standard courses. • We can even train in a copy of your production data base to simulate an accurate working environment. • We welcome, or can provide reference material for use during training. (Junction Boxes, I.O cards, ect.) • Training hours are flexible and can be adjusted to meet at any hour during the working day. (7am – 6pm) 	

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		<p>ADDITIONAL INTERGRAPH TRAINING FROM OSI</p> <p>SmartPlant Electrical</p> <ul style="list-style-type: none"> • TELE1001 • TELE1002 <p>SmartPlant P&ID</p> <ul style="list-style-type: none"> • TSPL1001 • TSPL1002 <p>OSI ADDITIONAL SERVICES</p> <ul style="list-style-type: none"> • Database Hosting • Report Customization • Maintenance Agreements • Database Auditing • INAudit Support • On-Site SPI Administration • Data Migration* • Seed Database Sales & Support* • Technical Consulting • Software Installation • Database Upgrades <p>* These services provided as an authorized Intergraph PPM Service Provider</p>	
5	Presentation	<p>Create Your Own SmartPlant Instrumentation Training Program - John Dressel, Fluor</p> <p>Introduction to SPI Training</p> <ul style="list-style-type: none"> • While formal SmartPlant Instrumentation (SPI) training is always an option – some may wish to develop their own SPI training program or to customized a program to fit their work practices and unique organizational goals • This presentation will introduce you to some of the elements and procedures to consider when setting up or customizing a SPI training program <p>Why Do a SPI Training Program?</p> <ul style="list-style-type: none"> • Consider your reasons for developing a SPI training program • To create or maintain your maximum SPI user capability • Optimizing the functionality of your SPI by the users • Consistent use of SPI for your Projects or Operations • Maintain the quality of your SPI deliverables • SPI update training for your users • To control costs of training <p>SPI Training Requirements</p> <ul style="list-style-type: none"> • Target Your SPI Training Needs and Requirements 	

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		<ul style="list-style-type: none"> • SPI Trainers and Administration Training • Update Training for existing SPI users • IT training for SPI on DBMS & Citrix • New and existing SPI user training • Supplemental or Focused Training • Instrumentation Training • Instrument Engineering • Instrument Design • Process Engineer • Process Tech • Maintenance • Operations • Management <p>SPI Training Formats</p> <ul style="list-style-type: none"> • Consider the most viable formats for your training program • Presentation type Instructor Led Classroom training • Hands on Instructor Led Classroom training • Self Paced Computer Based user training • Lunch and Learn short sessions • Just in Time user training • One on One user training • On the Job user training • Guest instructors • Outside classes • Combinations <p>SPI Training Costs</p> <ul style="list-style-type: none"> • Costs associated with SPI – Licensing, Support & • Establish and Maintain a SPI Training Budget • Based on Onsite or Offsite training • Is SPI Training Project Billable? • Included costs for SPI training • Preparation of materials • Software Licensing • Accommodations • Hardware costs • Trainers Time • Student Time • Travel Time • Other 	

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		<p>SPI Training Instructors</p> <ul style="list-style-type: none"> • When Developing or Hiring SPI Training Instructors • Consider the Trainers knowledge and skills • Look for Outside Training resources • Develop Super Users as Trainers • Develop Specialty Trainers • Train the Trainers <p>Using the SPI Tutorial</p> <ul style="list-style-type: none"> • The SPI Tutorial is included in the Documentation of SPI • The SPI Tutorial uses the In_demo.db database installed as a stand alone Sybase or an Oracle or SQL Server project per Student • Recommended supplemental material includes: <ul style="list-style-type: none"> ○ SmartPlant Instrumentation User's Guide ○ SmartPlant Instrumentation Online Help <p>System Administrator Activities</p> <ul style="list-style-type: none"> • How to initialize a domain. • Add users to the SPI user list • Create and assign a Domain Administrator <p>Domain Administrator Activities</p> <ul style="list-style-type: none"> • Set up the plant hierarchy • Define tag and loop naming conventions • Define a group and assign users to the group • Assign access rights for a group • Add custom fields and tables to the Instrument Index <p>General Tasks</p> <ul style="list-style-type: none"> • Open a specific unit in SmartPlant Instrumentation. • Define default units of measure and preferences. <p>Creating Instruments and Loops</p> <ul style="list-style-type: none"> • Define data in supporting tables, including instrument type profiles, P&ID drawing numbers, and lines. • Create loops and associated tags. • View and edit instrument data using the Instrument Index Standard Browser. • Generate and print out reports. 	

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		<p>Defining Process Data, Performing Calculations</p> <ul style="list-style-type: none"> • Create lines • Define line process data • Define instrument process data for flow elements, control valves, etc. • Perform instrument sizing calculations <p>Creating and Modifying Specifications</p> <ul style="list-style-type: none"> • Generate single-tag and multi-tag specifications • Copy data to specifications • Modify specification pages • Perform revisions on specifications. <p>Performing Wiring Operations</p> <ul style="list-style-type: none"> • Create panel-strip-terminal reference items and copy them to your plant. • Create cable-set-wire reference items and copy them to your plant. • Assign tags to DCS channels. • Connect cables / wires as appropriate. • Design the wiring for specific control loops, including connection type definitions and cross-wiring connections. <p>Generating Loop Drawings</p> <ul style="list-style-type: none"> • View and modify a loop drawing. • Display additional data in enhanced SmartLoop using macros • Change layout settings and include annotations for enhanced reports • Create block types and blocks for CAD loop drawings. • Associate block with instruments. • Add revisions. • Browse macros. • Generate a CAD loop drawing <p>Generating Hook-Up Drawings</p> <ul style="list-style-type: none"> • Create hook-up types and hook-ups • Add items in a hook-up library. • Assign hook-up items to hook-ups. • Assign instruments to hook-ups. • Generate a Bill of Material. • Generate a hook-up drawing using the Enhanced Report Utility 	

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		<p>You may wish to use the included SPI tutorial as a basis for your custom training program</p> <p>Customizing Your Training Program</p> <p>The SPI Tutorial is limited and will probably need to be supplemented with additional training as required</p> <ul style="list-style-type: none"> • Training for specific users: Process, Design, Maintenance etc... • Training for specific tasks: Fieldbus, Spec Sheets, Process data etc... • Training scaled to purpose: Lunch & Learn, Manager training etc... • Training based on upgrades: Update training, New feature training etc... • Training for consistency: Seed and Standard practices training etc... • Training for additional modules: External Editor, Import Module etc... <p>Other options for Custom SPI Training and Support are:</p> <ul style="list-style-type: none"> • Build a "Sandbox" plant in your SPI project for training and experimentation • Bring your global champions together and have an SPI Training Summit • Place Tutorials on your companies Knowledge Sharing program • Join LinkedIn SPI Forum Groups and ask specific questions • Send your super users to attend training at HEXAGON conferences • Check out the Intergraph PP&M Resource Center for Whitepapers & Webinars <p>http://www.intergraph.com/ppm/webinars.aspx</p> <p>Intergraph is considering developing a web based SPI virtual training program and is looking for companies to partner with to assist in developing such a program</p> <p>Training Program Resources</p> <ul style="list-style-type: none"> • Intergraph PP&M Training: SmartPlant Instrumentation • Register for classes Online, or call 1-800-766-7701 • Outside of Houston – Contact your local Intergraph Office: <p>Intergraph PP&M and Overload Services Inc. offer the following courses:</p> <ul style="list-style-type: none"> • SmartPlant Instrumentation for Users (TINT1001) • SmartPlant Instrumentation Installation and System Administration (TINT1003) • SmartPlant Instrumentation Customization & Data 	

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		<p>Management (TINT1004)</p> <ul style="list-style-type: none"> • SPI 2009 Update Class (TINT1005) • SmartPlant Instrumentation Advanced Wiring & Reporting (TINT1006) • SmartPlant Instrumentation As-Built/Operating Owner (TINT1007) • Infomaker Customization (TINT1065) • SmartPlant® 3D Virtual Training (SPVT) • SmartPlant Electrical Basic User (TELE1001) • SmartPlant Electrical Advanced User (TELE1002) <p>Custom courses can be developed specifically for a licensed user and the classes can be taught at Intergraph or Overload Services Inc. location in the Houston area or at your facility</p> <p style="text-align: center;">If you think training is expensive, the lack of it will cost you more!</p>	
6	Presentation	<p>Dimensional Data for Piping Daniel Richard, AMEC</p> <p>History of SPI DDP Module</p> <ul style="list-style-type: none"> • 1997 – One of the key requirements by Brown & Root to replace operational ICP legacy system • 1997-1998 – Developing specification and software • 1999 – In production in KBR • 2001 – Agreement on commercial use and sale of DDP • 2002 – PDS integration and delivery as a product • 2003 – Integrated with SP3D <p>Why instrument data in the model?</p> <ul style="list-style-type: none"> • Instrumentation is the most voluminous design discipline • Traditionally secondary to piping and equipment • Not always adequately presented in the 3-D physical design space • Volumes of instruments and level of detail required • With detailed instrument data the path is simplification for the sake of cost reduction <p>Instruments and physical space</p> <ul style="list-style-type: none"> • Are instrument's physical dimensions important? Yes <ul style="list-style-type: none"> ○ It may not work ○ Can't be installed • Does physical design data exists? Yes <ul style="list-style-type: none"> ○ Detailed design ○ Vendor documentation <p>Key drivers in design</p> <p>Reduces piping design man-hours by:</p>	

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		<ul style="list-style-type: none"> • Reducing man-hours - inputting dimensional data • Reduction of checking time. • Reduces dimensional data errors. <p>Key drivers in construction</p> <p>Reduces construction costs by:</p> <ul style="list-style-type: none"> • Design data matching with delivered equipment • Minimize risk of installation space clashes • Minimize risk of unsuitable equipment shipped <p>Key drivers in manufacturing</p> <p>Reduces manufacturing costs by:</p> <ul style="list-style-type: none"> • Using CAD independent data • Improving quality of delivered data • Speeding up order processing <p>Vendor supplied Dimensional Data for Piping</p> <ul style="list-style-type: none"> • Emerson Fisher Specification Manager is DDP ready <ul style="list-style-type: none"> ○ Will generate Eden Symbols and DDP Data ready for import to SPI • Dresser provides dimensional data on demand <ul style="list-style-type: none"> ○ Would like to include the DDP interface in the next integration generation • Masoneilan have expressed interest <ul style="list-style-type: none"> ○ Can be part of the integral vendor data supply cycle initiatives in the future <p>Viewing DDP forms & graphics in SPF - Majed Abouhatab, Shaw.</p> <ul style="list-style-type: none"> • DDPs Viewing from Majed who had previous Fluor experience: • Displayed a VBS file with ActiveX objects, Binary Stream, etc that resolved to WMF Files for viewing. 	
7	Presentation	<p>Introduction to SmartPlant Explorer Frank Pitts, Intergraph</p> <ul style="list-style-type: none"> • SmartPlant Explorer is your solution for viewing, querying, and reporting on data generated by SmartPlant P&ID, SmartPlant Electrical, and SmartPlant Instrumentation (powered by INtools®) design applications in the familiar Web browser. SmartPlant Explorer enables you to set roles to make only specific data available to certain groups of people. Plus, it is possible to define shortcuts or favorites to access data in a single step. • SmartPlant Explorer gathers live data from SmartPlant Enterprise Engineering & Schematics solutions and ensures access to the latest data to enable faster, more accurate decision-making. • In addition, the user can navigate across tasks. For example, users can select a control valve on the P&ID and view the specification sheet which comes from the SmartPlant Instrumentation environment without having to 	

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		<p>open SmartPlant Instrumentation.</p> <ul style="list-style-type: none"> • SmartPlant Explorer turns design data into information that fits your needs and work processes. The software provides a "common user experience" for all supported applications, enabling you to navigate through and report on SmartPlant P&ID and SmartPlant Instrumentation data. • Using a familiar Microsoft® Windows interface, SmartPlant Explorer will also allow you to link to and view related documents, such as maintenance work orders; vendor specifications; CAD drawings created with AutoCAD, MicroStation®, or SmartSketch®, and more. • Microsoft Internet Explorer is the only client requirement for complete use of SmartPlant Explorer. With no need for special training, you can enjoy immediate productivity with the familiar Internet Explorer interface. <p>SmartPlant Explorer for Plant Owners</p> <ul style="list-style-type: none"> • Save time and avoid the cost of lost production by providing easy access to plant information. Whether you need to perform routine or emergency maintenance, make facility modifications to comply with regulatory changes, or assemble work packages for a planned shutdown, SmartPlant Explorer makes all of the plant information, documents, and drawings pertaining to the facility readily accessible in the right context. • Support regulatory compliance. Quickly access accurate plant and regulatory information to save time and money. • Ease navigation across engineering tasks. SmartPlant Explorer provides ease of integration and navigation from one application to another, providing access to P&IDs, instrumentation data, and associated data. • Reduce the cost of software and training. SmartPlant Explorer is inexpensive to own and maintain, and does not require training or client-side installation of software. • Call external applications through customizing Web calls. <p>SmartPlant Explorer for EPCs</p> <ul style="list-style-type: none"> • Make the right decisions faster. Reduce the amount of time spent searching for data, resulting in tighter project schedules and lower project costs, thanks to simultaneous, real-time access to project data at its source. • Improve communication with upstream and downstream tasks. Enable other disciplines to view design data without paper document distribution. This eliminates the possibility of using out-of-date information. • Enhance design-checking procedures for global worksharing. JV partners can review designs that form the basis of their scope of work. <p>SmartPlant Explorer for Construction</p> <ul style="list-style-type: none"> • Support construction processes by improving communication with engineering, making project information readily available to all parties involved. 	

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		<ul style="list-style-type: none"> • Streamline the entire work process, and the creation of work packets. • Improve two-way communication using the Web and e-mail, and eliminate the costs of sending information by way of overnight packages. • Support scheduling, management, and execution of multi-location projects with an easily accessible "Web site" for project data <p>SmartPlant Explorer Key Features</p> <ul style="list-style-type: none"> • Navigate through project data <ul style="list-style-type: none"> ○ Drawings ○ Associated documents ○ Attribute information ○ Design calculations ○ Installation reports ○ Project standards • Access to project reports <ul style="list-style-type: none"> ○ Equipment lists ○ Instrument lists ○ Piping segment reports ○ Line lists • Microsoft Windows user interface – Familiar, intuitive Windows desktop environment for immediate productivity. • Microsoft Internet Explorer Web browser – Point-and-click access to project information using standard drawing elements and everyday user terminology. No additional plug-ins need to be installed. • Extensive, easy-to-use on-line help and tutorials – No formal training is required for experienced Windows users or users of PDS data. • Server-side setup only – Centralizes and reduces administrative effort. This applies to all modules. • Project setup and user access control – Easy-to-follow question and answer dialog setup, with online Help, Setup Wizard, and a Getting Started Guide. • Maintenance – Project setup schedules are executed without administrative assistance. <p>SPEX Offers Speed and Definite Safety with Access Rights, Training is only 2hours and 10% cost of SPI for Licenses and Maintenance</p>	
8	Presentation	<p>SmartPlant Instrumentation Update Alex Koifman, SPI and SPEX Product Manager, Guy Masin, SPI Product Owner</p> <p>SmartPlant Instrumentation Upcoming Release Details Next Planned HF</p>	

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		<p>Currently Planned Scope</p> <ul style="list-style-type: none"> ○ HF-120649, 120473 and 120039 – DCS integration in file mode ○ HF-121545 – SPI Setup not to break SPP&ID installation ○ HF-119268 – Custom cable cross-wiring claim and merge (O/O mode) ○ HF-121360 – ESL: Show not connected wire of cable ○ HF-121086 – Certain rules can fail ○ HF-120442 and 121302 – Document binder issues ○ HF-120853 – Custom page specification revisions ○ HF-121171 – Error in Document selection wizard ○ And more <p>Next Planned Point Release</p> <p>Currently Planned Scope</p> <ul style="list-style-type: none"> ○ CR-98152 – Enhance ESL access rights ○ RI-107906 – Improve Upgrade and Hot Fix delivery mechanism ○ CR-80542 and others – Macro expansion from SP P&ID, Typical entity and batch loop creation management in SPI ○ CR-56829 – Option to recover after failure of Spec binder revision ○ CR-84213 – Unit, area and plant UDF's on ESL title block ○ CR-102415 – Support loop and Hook-up generation on AutoCAD 2009, 2010 and 2011 ○ CR-110916 - Document binder revs on PST ESL report ○ CR-112171 – Expand DDP library for SP3D ○ And more ○ <p>Next Planned Major Release</p> <p>Currently Planned Scope</p> <ul style="list-style-type: none"> ○ CR-78416 – Develop Custom Browser wizard ○ CR-69094 – Calculations to support ISO-5167-2003 ○ RI-100856 – Add missing UOM's ○ RI-84114 – Enhanced DbChecker ○ CR-73914 – Develop Logic diagramming capability ○ RI-102537 – Support wireless instrumentation design ○ RI-111126 – Remove dependency on InfoMaker ○ RI-72770 – Improve access rights management ○ CR-75058 – Ability to modify KKS classification ○ And more 	

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		<p>V.2009 SP2 release features</p> <ul style="list-style-type: none"> ▪ Support new infrastructure platforms (Windows 2008 server, MS SQL 2008, Windows 7 client) ▪ As Built improvements and fixes ▪ Improved composite specifications management ▪ Area and Unit note length to be increased to allow for full length retrieval from SPF (when retrieving PBS) ▪ KKS – changed cable numbering uniqueness validation logic from hardcoded to rule driven and configurable (using the Rule manager) ▪ Enhanced Telecom and general wiring functionality delivering: new Telecom Explorer tree schema, Plug & Socket Wiring Equipment Wizard and ability to include WE as separate objects on the Cable Block Diagrams (CBD) ▪ Improved document binder reporting capabilities for included ESL and regular wiring reports ▪ Symbol Batch association for different entities <p>V.2009 SP3 release features</p> <ul style="list-style-type: none"> ▪ RI-107906 – Changes to the upgrade and Hot Fix delivery mechanism ▪ CR-102415 - AutoCAD 2009, 2010 and 2011 supported (as well in HF for v.2009 SP2) ▪ CR-98152 - Access rights enhancement within ESL – users without the ability to save to the Layout can still assign loops to a layout. ▪ SPI framework evolution – changes to the infrastructure bringing more stability and new look and feel of the UI ▪ Ability to save files from InfoMaker v.12 to be used in v.2007.x and v.2009.x (availability late summer 2011) ▪ CR-80542 - Handle macro expansion between SPPID and SPI including revamp of the Typical Loop mechanism (including CR-60697 – Typical tags and Loop shown in Reference Explorer) and management of different tag classes as typical loops/macros ▪ CR-115160 – Resolve issues with the presentation of the nested objects in the ESL in custom mode (regression in v.2007/2009) ▪ CR-121696 - Documentation on SmartPlant Schema Configuration Wizard ▪ CR-56829 – Option to recover after failure of the Spec Binder revision process. ▪ CR-84213 – Plant, area and unit UDF's available on ESL titleblocks. ▪ CR-106714/122325 – Enhance Security for Oracle DB administration. ▪ CR-110916 – Ability to see Document Binder information on panel strip reports in ESL. ▪ CR-112171 – Expand and synchronize SP3D and SPI DDP 	

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		<p>libraries</p> <ul style="list-style-type: none"> ▪ CR-115785 – API to support Loop Specification ▪ CR-117561 – Support Microsoft Office 2010 ▪ CR-117615 – Telecom::Panel patch wiring for plug & socket cables ▪ CR-110532 – Cable display is optimized in ESL reports. <p>Release plans and schedules</p> <ul style="list-style-type: none"> ▪ Current version: v.2009 SP2 (Released December 2010) ▪ Next release: v.2009 Service Pack 3, main objectives are: <ul style="list-style-type: none"> – Develop Macro expansion from SPP&ID – New upgrade and Hot Fix delivery mechanism – Support multiple lines per instrument (with integration with SPP&ID and SP3D) – Integration fixes and enhancements – Additional enhancements – Maintain the robustness of the product achieved in v.2009 ▪ After next releases: <ul style="list-style-type: none"> – V.2009 SP4 – V.2013 planned for H2 2012; will include support for Oracle 11 – V.2013 R1 for new functionality (Browser Wizard, Control & Logic Diagrams, etc) and continued customer issues resolution (TR's). <p>Plans for the next release are still being discussed but will likely include</p> <ul style="list-style-type: none"> ▪ Integration enhancements and fixes ▪ Browser Wizard ▪ Develop control logic diagramming capability ▪ NE-100 integration (through standard SPF integration mechanism) ▪ Customizable Process Datasheets (forms) ▪ As Built enhancements/fixes ▪ Add separate access rights to Instrument Index supporting tables. ▪ Initial Wireless support is planned. <p>And other features.</p>	
9	Presentation	<p>SmartPlant Instrumentation Macro Expansion</p> <p>Alex Koifman, SPI and SPEXProduct Manager</p> <p>Guy Masin, SPI Product Owner</p> <p>SPI Macro Expansion Terminology</p> <ul style="list-style-type: none"> ▪ A “Macro” is a collection of one or more typical items in SPI (Instruments and/or Loops). 	

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		<ul style="list-style-type: none"> ▪ A “Carrier” is a published P&ID object, that during its execution in SPI initiates a “Macro”execution. ▪ “Macro execution” – the process in which a “Carrier”creates SPI Instruments and/or loops as defined by the “Macro”. ▪ Expanded object – SPI item that belongs to a carrier and Macro(created or updated by macro expansion). ▪ Non-Expanded object – SPI item that doesn’t belong to a carrier and/or macro. <p>Things you should know</p> <ul style="list-style-type: none"> ▪ A “Macro” is a collection of one or more typical items in SPI (Instruments and/or Loops). ▪ Once a macro has been executed by integration, it cannot be modified in SPI. ▪ Renaming a carrier in SP P&ID will create update tasks in SPI* ▪ Changing the macro name in SP P&ID will apply the new macro structure on SPI. Irrelevant items will be dissociated from the carrier and the “package”* ▪ Deletion of the carrier in SP P&ID will result with deletion ofthe objects in SPI as it is today* ▪ There is no user interface that reflects macro relationship witha carrier or sub items. ▪ In case conflicts are encountered during execution of the To-do-list tasks, the macro execution will fail followed by an appropriate notification. ▪ Macro execution log files are created in the system’s temp directory. 	
10	Forum Topics	<ul style="list-style-type: none"> • SPI Training Issues – Is training too expensive, is there added value? <ul style="list-style-type: none"> ○ RULE MANAGER past 2010 IGUG training ok, but Intergraph thinking of developing a 2 day training (high in programming development) in Houston • Auxiliary Modules DDP, Import, External Editor, Fluke Calibrator, Etc... <ul style="list-style-type: none"> ○ Calibrator Update caused problem for some users • CR posting and ranking – Is CR ranking effective for the SPI user community? <ul style="list-style-type: none"> ○ Suggested Interwise/WebEx or Webinar to telecom us together in a meeting to set CR Ranking as a scheduled event • Telecom Module – What improvements do we need in the Module? 	

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		<ul style="list-style-type: none"> ○ Some upgrades in SP2 & 3, and ESL enhanced to handle Telecom ○ From Intergraph Free License after SPIv2009SP2 ● AsBuilt project claim query for trivial changes? <ul style="list-style-type: none"> ○ Maintenance Changes done via Admin Owner/Operator ● EPC maintain P&ID, Owner/Operations controlling SPI wants to View (Explorer) into their real-time P&ID. <ul style="list-style-type: none"> ○ Intergraph (Alex) mentioned multiple ways to integrate & view. ● Open Discussion <ul style="list-style-type: none"> ○ Fluor Joint Venture License Manager not Releasing Licenses across firewall ○ Target Intergraph SPLM support group with Locked Licenses – Direct Productivity issue ○ Fluor asked how many folk are using SPF (not many hands) and Fluor has had many successes with Function quality and use. (Especially SPF INTO SP3D) 	
11	Close	<ul style="list-style-type: none"> ● Next meeting to be 8-Nov-2011 at Mustang ● John Dressel closed meeting 	