

SmartPlant Instrumentation Technical User Forum P2C2 (Houston SPI TUF) Meeting		May 21, 2008 8:00 am Black and Veatch Engineering
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Attendees	48 Members in attendance 6 Online via Net Meeting	Copied To	All Houston LTUF Members
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Called By	John Dressel (Fluor)	Prepared By	Daniel Lopez (Foster Wheeler)
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Item	Topic	Notes	Action/Due
1	Call to Order	1. Chuck Liveley (Black and Veatch Vice President and Houston Regional Office Manager) called the meeting to order with an introduction to Black and Vetch	
2	Chairman's Notes	2. Thanks to Rickey Holcomb and Black and Veatch for hosting the meeting and the presentations. 3. Thanks to members and guests for attending this meeting of the Houston SPI LTUF. 4. John Dressel spoke on using SPI automation to assist companies ... 5. SPI Global TUF. Sunday June 1st, LTUF members encouraged to attend and add emphasis the Global Technical User Forum. Please submit discussion items to John Dressel, at your earliest convenience 6. Intergraph 2008 International – June 2 – 5 -- Las Vegas, Nevada Attendance and participation to Intergraph 2008	
3	Minutes	7. Minutes of last meeting approved	
4	Introductions	8. Each member stood and introduced themselves and spoke of what their utilization of SPI is. Welcomed several members who connected into meeting with Webex Fred at Syncrude as well as Alex Koifman of Intergraph	
5	Black & Veatch	- Alfred Moujaes, Regional General Manager - Energy Delivered a presentation on Corporate Structure and Markets. - John Chamberlain – Senior Instrument Engineer Presented SPI highlights of Costa Azul LNG Terminal. The facilities include Loading Dock, LNG Tanks, Compressors, etc... <ul style="list-style-type: none"> • 2700 DCS I/O points • 1100 ILDs • 29 Requisitions • 247 Transmitter with 6 Revision Including severe temperature services. <u>BENEFITS</u> Security; Multi User; Jobsite Accessibility using remote access.; Ability to copy datasheets / calculations PSV,	

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		(Note regarding: Consolidated's "SRVS" is a Dresser Relief Valve Sizing and Selection Program that has an interface with SPI when using their datasheet. Consolidated is in the process of making changes to the material options on their datasheet. Overload does not currently have the updated version of this datasheet to distribute.)	
6	Suggested improvements to SPI FieldBus functionality	<p>Nezar Faitouri (OSI) presented the following 5 improvements to help make Foundation FieldBus more user friendly:</p> <ol style="list-style-type: none"> 1. Do not check the Control System & AUTO CREATE CS TAG in the Instrument Type Profile for Virtual Tags. There can be only one CS TAG and it should be with the FF device itself. 2. Function Block Assignment is specific to the DCS Vendor. If you change the Vendor or you just want to re-assign it. The Function Block will not be applied by using the apply profile options. A better fix for Intergraph would be to include this Function Block re-assignment in a batch mode or add a command "apply function block. (Question was asked, If you had more than one DCS Vendor could you be more selective?) 3. Tag Classification has been difficult as Intergraph has planned a fix in Version 2008. In Version 7 a fix could be to have an option for an interface to turn on option or make it part of the Domain Administrator's functions in the Admin Module. Current Tag Classification are FieldBusFF, Hart, DeltaV, ... <i>Nezar to add</i> 4. VFD Virtual Field Devices <ol style="list-style-type: none"> a) Eliminate VFD's from index using a filter. b) Unit number is not validated on VFD's c) Naming convention is not associated back to Device Tag d) Need a reporting structure in browser format for VFD's e) Need a folder in Domain Explorer f) Need an Editable Property screen that will auto-populate certain fields. 5. The Rosemont 848T Temperature Multiplexer <ol style="list-style-type: none"> a) CS Tag is created against this MUX device tag. TR is outstanding. b) _____ only shown points that are connected. May track on terminal. Key is to label the channel... <p><i>Nezar will elaborate and provide graphics at the GTUF.</i></p>	
7	SPI User Developed Tips and Tricks	<p>John Dressel (Fluor), added to the bag of Tips and Tricks within the following categories, Administration; General, Browser; Specs, Spec Data Dictionary (See full presentation for details).</p> <p>He noted the most useful were the following:</p> <p>TRAIN YOUR USERS</p> <p>The investment you have made in SPI can only be realized with users who are trained to use the tools well and get the most out of it</p>	

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		<p>KEEP IT SIMPLE</p> <p>Use the minimum amount of data in SPI to support the deliverables you are creating. Remember that the data in SPI will need to be maintained for the life of the Project and/or Plant in an As-built configuration</p> <p>PLAN AHEAD</p> <p>SPI depends on Instrument Types, Profiles and Support Tables being configured correctly. Every minute you spend properly configuring SPI at the beginning of a Job or Project, will save hours in rework throughout the life cycle of the database</p> <p>USE SPI</p> <p>Use the tool as it is designed to be used. Don't try to make the software fit your work processes, change your work processes to fit the software. Don't take shortcuts. Work Through SmartPlant Instrumentation, not around it</p>	
8	More Legible Loop Drawings with ESL	<p>Gene Haney (CB&I) presented a useful remedy to a common ESL...</p> <ol style="list-style-type: none"> 1. Complaint – Legibility <ol style="list-style-type: none"> a. Difficult to read (full size & especially reduced prints) b. Increasing the font size only partially beneficial 2. Necessity <ol style="list-style-type: none"> a. Construction complaint b. Usually lost text in 8.5 x 11 reduced print 3. Remedy <ol style="list-style-type: none"> a. Scale the Title Block down b. Print to fit. <p><i>See presentation for procedures and screen captures</i></p>	
9	Owner/ Operator System Utilizing As-built/ Project built/ Project Domains	<p>Tracey Heckathorn- (BASF Corporation)</p> <p>As Built use on Joint Venture Projects Two examples of why the AsBuilt Database is Database required to stay accurate:</p> <ul style="list-style-type: none"> ➤ Troubleshooting plant problems ➤ Audits (OSHA, TNRCC, etc,) <p>The Project Schema maybe used by either in plant engineering, outside plant engineering, outside contractor engineering or a maintenance project you would like to keep separate from the live database.</p> <p>Benefits to a Project by Using the Project Schema</p> <ul style="list-style-type: none"> ➤ Saves man-hours by optimizing reports for construction package. (Do not need to filter for cables, panels, etc. used in the project) ➤ Saves man-hours if a project is cancelled. You just cancel the project instead of returning all documentation back in its 	

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		<p>original state.</p> <ul style="list-style-type: none"> ➤ Allows for all as-built drawings to be reviewed and accepted prior to merging the project back into the AsBuilt Schema. ➤ Allows for the option of the project reviews to be done paperless prior to Issue for Construction. <p>Benefits to the Plant by Using the Project Schema</p> <ul style="list-style-type: none"> ➤ Allows complete review and approval before the Project is merged into the Live Database. ➤ Allows for the live documentation (AsBuilt) to remain intact while the engineering design modifications are being made in the project. ➤ Allows the plant personnel to control the projects use of their tag naming conventions, I/O points or terminal connections. ➤ The plant personnel still see the tag names of instruments or panels in the live database. Also, the database can prohibit the duplication of tag names for the new additions in a Project. <p>Conclusion</p> <p>The Project Module is essential to an Owner/ Operator's business but we need to work together with SPI to make improvements and enhancements in order to create an ideal tool.</p> <p>Discussion Items</p> <p>Fred (Syncrude) merging a large project back into AsBuilt noted that the size of the Buffer was at issue. Must break out in sessions and had difficulty with putting the wiring back in bulk.</p> <p>Robert Lauderdale (Mustang Engr'g) and Nezar (OSI) agreed that the Foundation FieldBus wiring must be merged by Segment. Also in regard to Releasing the Claim may be better to take rights away for the ability to delete and only provide modify rights.</p> <p>Project must go in and shop for individual items such as terminal not claim entire TB. Owner users must be aware of timing of claim and ongoing modifications.</p> <p>Alex noted that SPI 2007 rolled out at 2 BP refineries. Los Angeles is involved in the As Built status with some 100-150 ongoing projects. They are learning how it works and although the claiming procedure is time consuming they do it all the time using VPN / Citrix. Also noted that after merge must get into habit of generating report if not on report the entity did not get merged.</p> <p><i>See presentation for procedures and screen captures</i></p>	
10	SmartPlant Instrumentation Product Update	<ul style="list-style-type: none"> ➤ Improve and enhance support for integrated engineering work processes ➤ Provide advanced and reliable engineering and operations data management solutions for operating plants ➤ Respond to discipline specific business driven needs of the 	

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		<p>engineering community</p> <ul style="list-style-type: none"> ➤ Extend SPI reach from traditional petrochemical industry to power, including nuclear, pharmaceuticals and mining ➤ Continue to improve reliability and usability of the application <p>V2007.5 Planned release date June 5/12, 2008</p> <p>Support PDF generation without Adobe or Ghost script using internal library</p> <p>Create specification browsers with instruments across multiple forms</p> <p>Domain Explorer issues related to moving or replicating large data sets resolved</p> <p>Typical Loop handles Foundation FieldBus and Soft Tag classes in addition to conventional tags</p> <p>Allow changing tag class from Foundation FieldBus to conventional</p> <p>Significant changes to the Calibration module</p> <p>V2007.4 Released January 20, 2008</p> <p>Integration To Do List enhancements</p> <p>Support for Vista Business client, Office 2007 and Microsoft IE 7</p> <p>Additional multi-strip wiring ESL report for complete wiring from selected panel</p> <p>Extension to the DDP library with new groups supported by SP3D</p> <p>Multiple additional fields in the specification module -480 numeric and 100 long (255 characters) fields</p> <p>Several additional features were added in 2007 in v.2007 SP1, SP2 and SP3</p> <p>V2008 –Scheduled release: Q4, 2008</p> <p>Support publishing all SPI engineering documents to integrated engineering environment</p> <p>Provide ability to filter the content of the Instrument Index and Electrical Index (for SPEL interface) Browsers</p> <p>Support volumetric flow condition selection in the Instrument, Calibrated and DCS ranges across the application</p> <p>Provide complete Oracle Unicode database support</p> <p>New specifications library</p> <p>Improved database security and control capabilities</p> <p>Enable merging project entities into As Build without the need for exclusive use of the domain</p> <p>Support Citrix Presentation Server 4.5</p>	

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		<p>Future plans</p> <ul style="list-style-type: none"> Improve support for the project engineering disconnected from the As Built databases Develop engineering design re-use mechanism to support: <ul style="list-style-type: none"> Reuse of design packages between projects Packaged vendor equipment instrument information delivery Licenser and pre-FEED packages transition to FEED and detailed design Continued improvements in the Calibration module and integration with smart calibrator vendors to support plant startup and operations Support cross-plant wiring Continue enhancing and improving NE-100 interface to support vendor information exchange Implement select additional new features with high demand <p>These and other features will be part of the future major releases and service packs.</p> <p>-</p>	
11	Forum Topics & user comments	<p>As mentioned above a new set of Normalized Specification Forms will be available in 4th Quarter 2008, with SPI-2008, using Infomaker 10. Currently they are being Reviewed and checked.</p> <p>There will be an option to modify any of the 40 specification title block. What will work in today version of Spec form, will work on new forms, and have similar limitations. However the biggest challenge has been the normalization of the SPEC_UDF across various forms. For instance the UDF which held the Seal Material on one form was on a different from form to forms. There is still a need to do more integration for external system or Foundation FieldBus Page. Now the internal layer of "Mapping" within any given database field is done regardless of SPEC_UDF. NE-100 maps the data module name "Seal Material" to "Seal Material" on another form. This is a major benefit to Nuclear System Engineers who need system wide views. Service Pack 5 or 6 will have cross form browser. As long as DD has column name is consistent SPI will populate. Or you may Save As an Excel Worksheet to provide to vendor interfaces and may extend to cover all front end user interfaces.</p> <p>Many manufacturers for valves or accessories must be determined by individual EPC's. Cannot move from one form to another today, but in the future these will be more easily moved.</p> <p>Robert Lauderdale asked about ESL conversion and support to/for AutoCAD 2008. SPI Version 2008 will have support for AutoCAD 2008. Discussion on MicroStation J support and was requested in SR for SP.6 release. MicroStation V8 along with AutoCAD 2000 will no longer be supported in new releases.</p> <p>Even though SPI is the defacto standard in contrast SPEL is currently being used by relatively few of the same groups who employ SPI.</p>	

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		<p>The developments between the two have shared tasks, including wiring, cabling details, management of power supplies and cabinets/panels and common instrumentation. Focus and current integration addresses 2 main tasks.</p> <ul style="list-style-type: none"> ➤ Management of Electrical I/O ➤ Cross Reporting (Cable Schedules, etc.) <p>CR49441 – Maps additional attributes between applications CR40105 – Auto creates devices from SPEL</p> <p>Europeans have combined both I & E disciplines. Discussion on the Management and Reporting features either across or within SPI, SPEL or SP-3D. Should Intergraph build a relationship between SPI and SP-3D as they have done with SPEL and SP-3D to handle the "from/to" interface? When SPEL was looked at as a Maintenance tools or as the master cable repository, LTUF expressed many didn't want to buy and maintain a separate SPEL to manage instrument cables.</p> <p>Noted that Mustang was using the routing and generation reports.</p> <p>Discussion followed on amplifying mechanism in DDP to allow cable information. Assigned to next generation team at Fluor.</p>	
12	<p>CR Ranking</p> <p>(John Dressel, please get latest from Alex. Only captured first two from this meeting others are copied from last Meeting.)</p>	<p>Alex Encouraged users to obtain a formal issue of any CR from Intergraph. Thus all your CRs will be recorded in Siebel. You may see all your open CR's. Newly introduced is a schedule for release of the number of SR's attached to TR's and CR's. LTUF help drive the priority of when fixes are done. Intergraph will be adding which release an SR will plan to be fixed. Alex will note the respective CR and action.</p> <p>Owner Operator Check Db must go to Developers ISDC.</p> <p>Some concern on SR status that has been escalated to ISDC. Response has taken from 3 weeks to 1 month.</p> <p>Nezar expressed concern for redundancy with multiple cards to one slot. If create I/O cards cannot set redundancy must work around to create I/O Term.</p> <p>Next LTUF will focus on Support Issues.</p> <p>Alex noted that the Hot Fix goal is to be implemented within a week +/- of SP release. QC mechanism would roll the Hot Fix into the next SP release. Development of this tracking sequence shows that some will be moved forward into the next SP release.</p> <p>SmartPlant Instrumentation CR Ranking (See attached Spreadsheet) The following was briefly discussed and has had more emphasis than others on the list.</p> <ul style="list-style-type: none"> ➤ CR-75076 – Inline with primary.... ➤ CR-78417 – Accommodate the XYZ report ➤ CR-71651 – Paper size defaults to A4 most can be predefined for instance the specification is defined per the PSR definition; the index size should be 11 x 17 as well as wiring reports etc... ➤ CR-72770 – Rework the access rights mechanism ➤ CR-75076 – Wiring and non-wiring associations on Loop Diagrams 	

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		<ul style="list-style-type: none"> ➤ CR-78416 – Custom Browser wizard you may compose different data from UDTs to records ➤ CR-84114 – Need to run Check DB and send to Intergraph ➤ CR-41406 – Text String Functions ➤ CR-52407 – Scaling ➤ CR-66280 & 81140– Custom and Auto generation methods ➤ CR-83131 – References on panel strip report and drawing numbers on Loop Diagrams ➤ CR-73912 – Packages - Leave as a Vendor Package or extract as a package without having to use merge utility ➤ CR-76116 – provisions for SIL / SIS data fields ➤ CR-82939 – Report on balance of available tags ➤ CR-78417 – Provision for Location Plans 	
13	Close	<ul style="list-style-type: none"> - Review of meeting - Review of action items - Next meeting to be August 6, 2008 Fluor Engineering - John Dressel closed meeting 	
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