Technical Panel List
Intergraph PP&M
SmartPlant Construction

Michael Buss
Vice President Materials & Construction
Integraph PP&M: No. 1 or No. 2 in the industries we serve*

- No. 1 in Oil & Gas Industry
- No. 1 in Chemical Industry
- No. 1 in Power Plant Industry
- No. 1 in Life Sciences & Pharmaceutical Industry
- No. 1 in Mining Industry
- No. 2 in Offshore & Shipbuilding Industry
PP&M Customer Satisfaction

- 2009: Satisfied + Very Satisfied = 83%
- 2008: Satisfied + Very Satisfied = 80%
- 2007: Satisfied + Very Satisfied = 76%
PP&M: Newest Solution Portfolio in the Industry

- Many competitive solutions are going back to the 80ies.
- Most PP&M solutions are newer than 10 years.

In technology, Time matters!
Construction Readiness (Constraints) Impact to Growth & Cost Based on a $1 Billion Project (Statistics from IPA based on 12,000 Projects)

Total Field Growth

$100M Savings

Median

$600 Million Loss

Ready to Start
Moderately Prepared
Delay Construction

Pr < 0.001
<table>
<thead>
<tr>
<th>Do you agree with the business value a construction solution would deliver?</th>
<th>US &amp; Europe</th>
<th>Asia Pacific</th>
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</thead>
<tbody>
<tr>
<td>Yes</td>
<td>89%</td>
<td>90%</td>
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<td>10%</td>
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Important to have Balanced Plan

- Cost
- Schedule
- Budget
- Completion Date
<table>
<thead>
<tr>
<th>Do you think SmartPlant Construction can deliver business value geared to improve your construction?</th>
<th>US &amp; Europe</th>
<th>Asia Pacific</th>
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<tbody>
<tr>
<td>Yes</td>
<td>76%</td>
<td>80%</td>
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<tr>
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Work Planning Hierarchy
Work Planning Hierarchy

1. Plant
   - Nuclear Plant

1.1
   - Containment Area

1.1.1
   - Containment Structure
      - Steel Liner
      - Base Mat
      - Formwork
      - Pour Concrete

1.1.2
   - 1.1.2.1
   - 1.1.2.2
Create Work Package for Field Welding
Break WP Components into Work Steps
World Wide: What some our partners say about Intergraph’s approach to Construction Management

- **Technip (Europe)**
  - “SmartPlant Construction opens the door to new possibilities in project execution on any scale”

- **URS Washington Group (USA)**
  - “SmartPlant Enterprise’s cutting-edge attributes will make us more efficient and add value to our customer’s projects”

- **CTCI Corp (China)**
  - “This application has the potential to introduce a step change in the way we do business and lead to improvements in our projects”

- **QUIP (Brazil)**
  - “The success we have had with Intergraph solutions makes our decision to implement SmartPlant Construction a natural progression toward further increasing our productivity and enabling us to better plan and manage our projects”

*The power of Intergraph working with partners to succeed!*
Summary

- User Friendly
- Easy to administer
- Real time link to Engineering, Procurement & Schedule
  - Refresh by a press of a button
- Easy to deploy
- Broader solution than just WFP
Global Capabilities……

….to support Homogeneous and Heterogeneous environments
## English Environment

![Schedule Interface]

### Project Details

- **Planned Start Date**: 11/14/2009
- **Planned Finish Date**: 11/29/2009
- **Actual Start Date**: [Day/Date]  
- **Actual Finish Date**: [Day/Date]
- **Estimated Man-Hours**: 1000.5

### CWP Schedule Breakdown

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<tr>
<th>Pkg Number</th>
<th>Description</th>
<th>Planned Start</th>
<th>Planned Finish</th>
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<tr>
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<td>05/30/2009</td>
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Chinese Environment

计划的开始日期：2009-11-14
实际的开始日期：___-___-
估计的工时：1000.5

CWP 计划分解

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<tr>
<th>Pkg 号</th>
<th>描述</th>
<th>计划的开始日期</th>
<th>计划的完成日期</th>
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Russian Environment

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<th>Запланированные начало</th>
<th>Плановая окончание</th>
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Global Communication

Moscow

Shanghai

Calgary