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Product Collaboration using ProcessPoint at Dow Reichhold Specialty Latex

Outline

- Dow Reichhold Specialty Latex
- ProcessPoint Drivers
- Project Scope
- Anticipated Benefits
- Summary





Dow Reichhold Specialty Latex

- 50/50 joint venture of The Dow Chemical Company and Reichhold, Inc. (DRSL)
- Formed in January 2002
- World's largest producer of specialty latex
- Develops customized technologies & products
- Innovation, speed and teamwork are key elements of the DRSL business model





Locations

- Headquarters and Research & Development
 - Research Triangle Park, NC
- Primary Manufacturing Locations
 - Cheswold, Delaware
 - Kensington, Georgia
- Other Manufacturing
 - North America , Europe
 Latin America , Asia/Pacific Region





Products

- Polymer Types
 - Styrene Butadiene
 - Nitriles
 - Acrylates
 - Specialty Co-Polymers





Applications

- Adhesives
- Packaging
- Construction
- Gloves
- Nonwovens and Textiles

- Performance Resins
- Specialty Paper
- Latex Modified Concrete





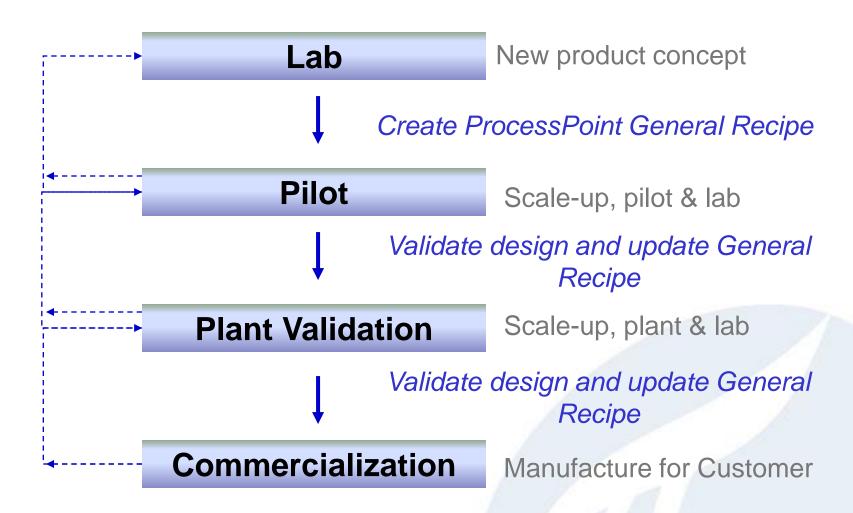
Drivers for ProcessPoint

- Global R&D, Manufacturing and Sales
- Challenges of bringing systems together from Reichhold and Dow Chemical
- Recipe management in general
 - Management of change for existing products
- Product innovation management
 - Speed to market for new products





Innovation Process







Project Team

- Management Support
 - VP of Technology creates recipes
 - VP of Manufacturing uses recipes
- Core
 - Manufacturing
 - Research & Development
 - Environmental, Health & Safety
 - Process Engineering
- Other Team Members
 - Finance, Purchasing, Pilot Plant





Key Requirements

- "One version of the truth" through global database
 - Across departments & geographical locations
- Facilitate company-wide collaboration
- Flexible recipe development & management
 - Key ingredients, activity based descriptions
- Searchable recipe database
 - Legacy data was in Excel, difficult to manage
- Management of change
 - Audit trail, Electronic approvals, Versioning
- Security of intellectual capital





Other Factors in Selection of ProcessPoint

- ISA S88 General Recipe Standard
- Raw material management
- Role based views using Display Templates
 - Internal & Customer
- Flexibility for additional uses of software
 - Marketing, Regulatory, Enterprise accounting
- Positive experience with OSIsoft
 - Using PI software at manufacturing sites





Project Scope

- Raw Materials
 - O Properties
- Intermediates & Products
 - o Properties
 - o Formula
 - o Procedures
- Final Products
 - Key properties
 - Packaging data





Project Scope – Raw Materials

- Each vendor raw material specification is authored, approved & versioned by Purchasing/Technology/EHS
- Latest specifications accessed in real time by Receiving Personnel to ensure C of A compliance
- R & D, Manufacturing have real-time access to the most recent approved raw material data and related documents





Project Scope – Intermediates & Bulk Product

Technology

- Typical properties
- Quality specification limits
- "Dry Parts" activity based formula
- General recipe composition, procedure, specifications

> EH&S

- Health, safety and environmental risks
- Labeling needs
- Regulatory compliance status

Manufacturing

- Product scale-up
- o Master Recipe





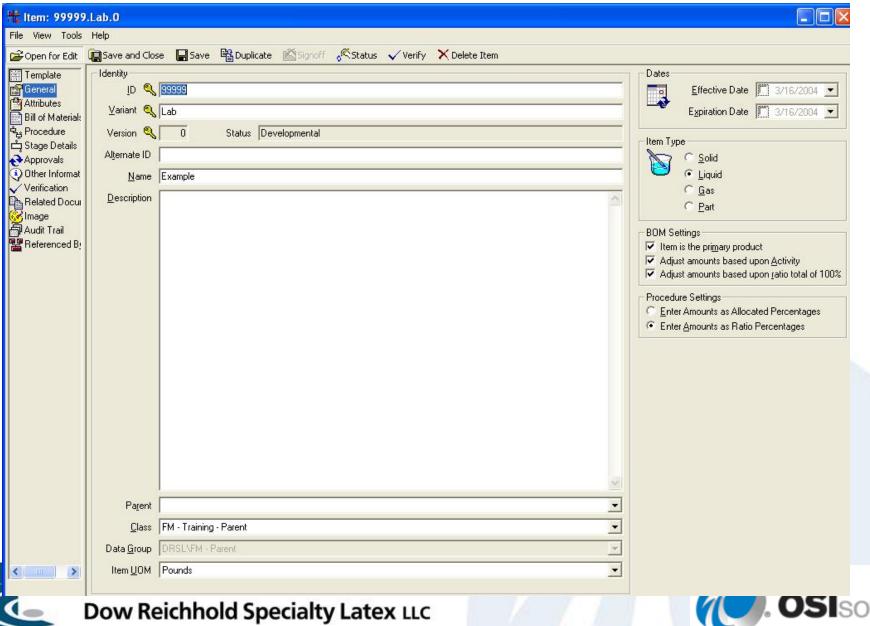
Project Scope – Packaged Product

- Package codes
- Key final product properties
- Product display templates used by salespeople and customers



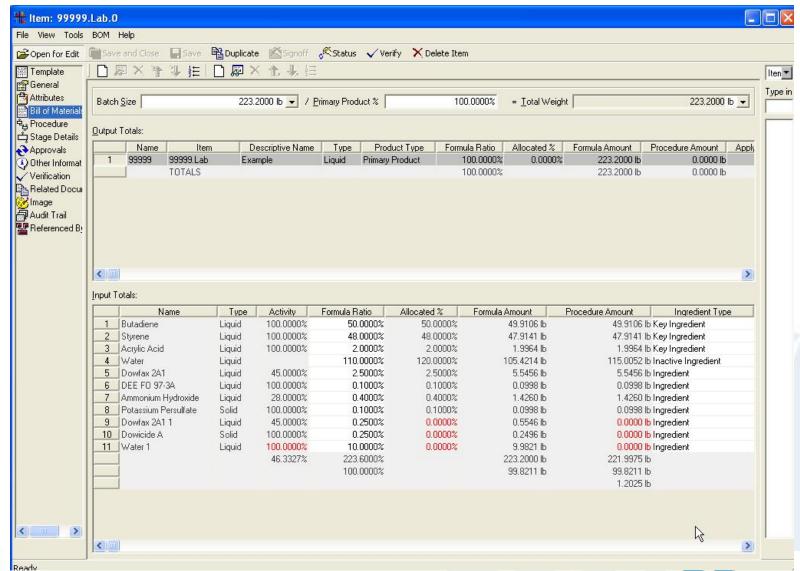


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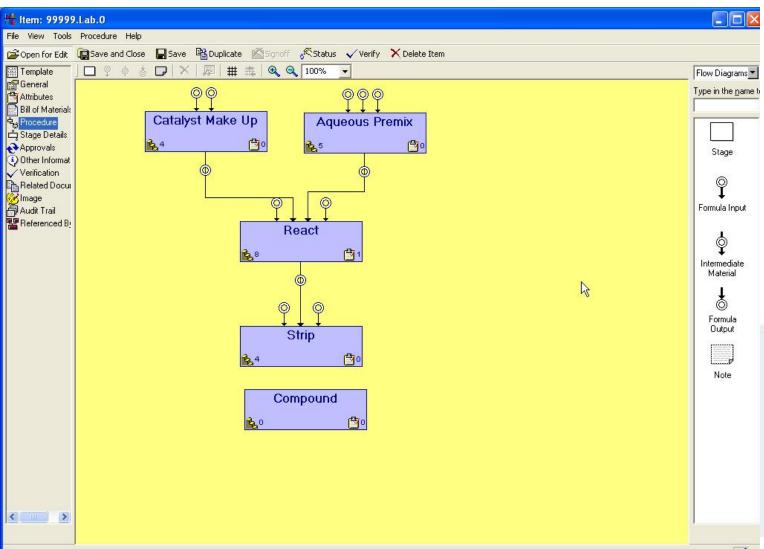
Dow Reichhold Specialty Latex LLC

Bill of Material





Procedure







Procedure – Stage Details

General Steps Constraints Other Information								
	Order	Path	Action	Formula	Material	Allocated	Value	Desc
1	①	0	Intermediate Input		Intermediate_Material		84.6614 lb	
2	Ŷ	0	Agitate				5.0000 min	
3	Ŷ	0	Temperature				140.0000 deg F	
4	市	1	Feed	Styrene	Styrene.DR	48.0000%	47.9141 lb F	Feed over 360 minutes
5	11	2	Feed	Butadiene	Butadiene.DR	50.0000%	49.9106 lb F	Feed over 360 minutes
6	井	3	Intermediate Input		Intermediate_Material		38.6529 lb (Catalyst feed over 60 minutes
7	Ŷ	0	Temperature				180.0000 deg F	
8	①	0	Intermediate Output		Intermediate_Material		221.3143 lb	





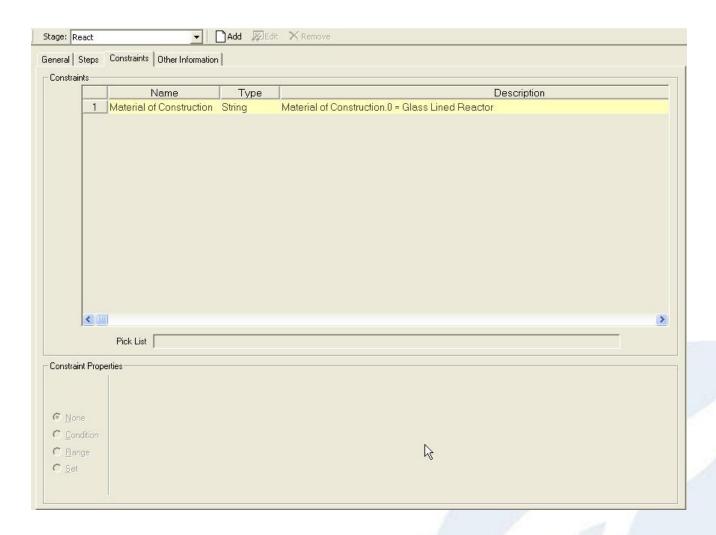
Procedure – Step Parameters







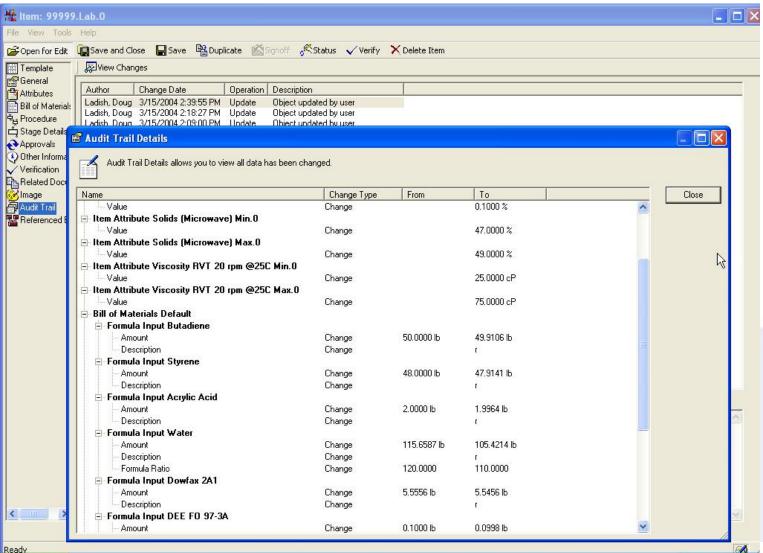
Procedure – Stage Constraints





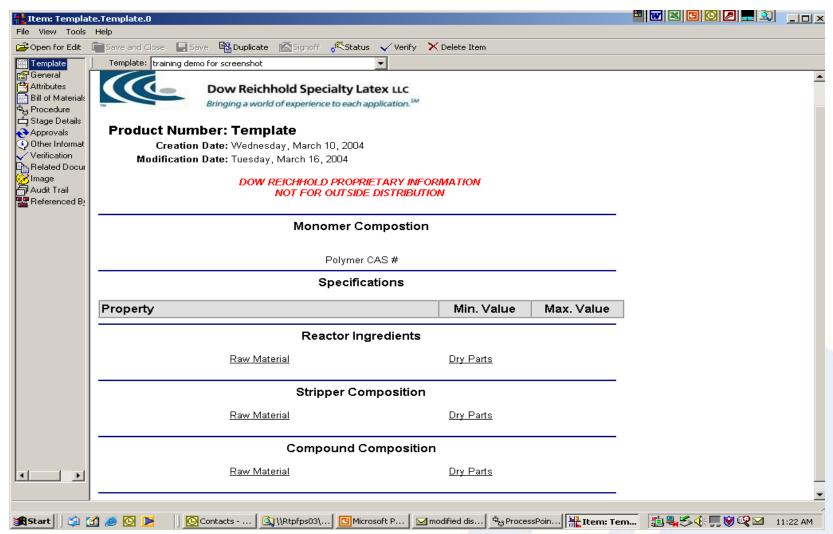


Audit Trail with Details Shown



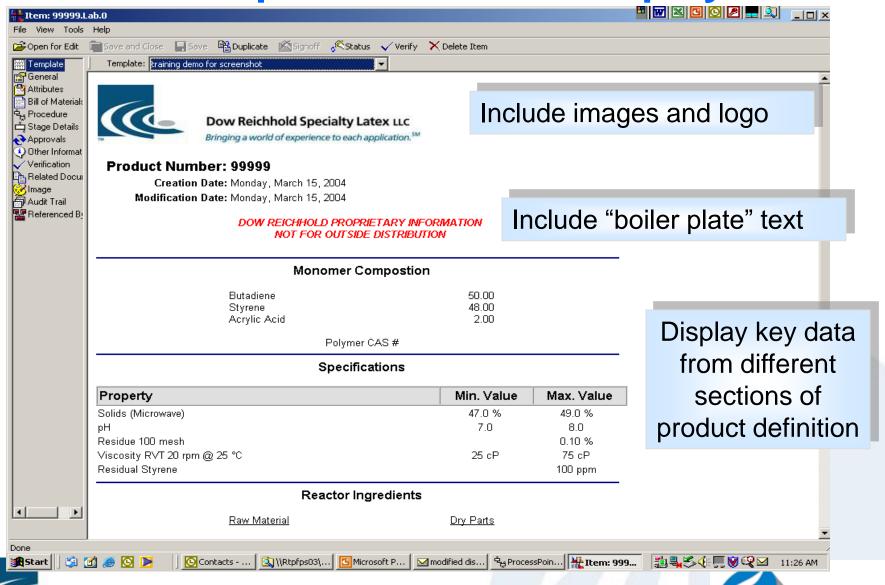


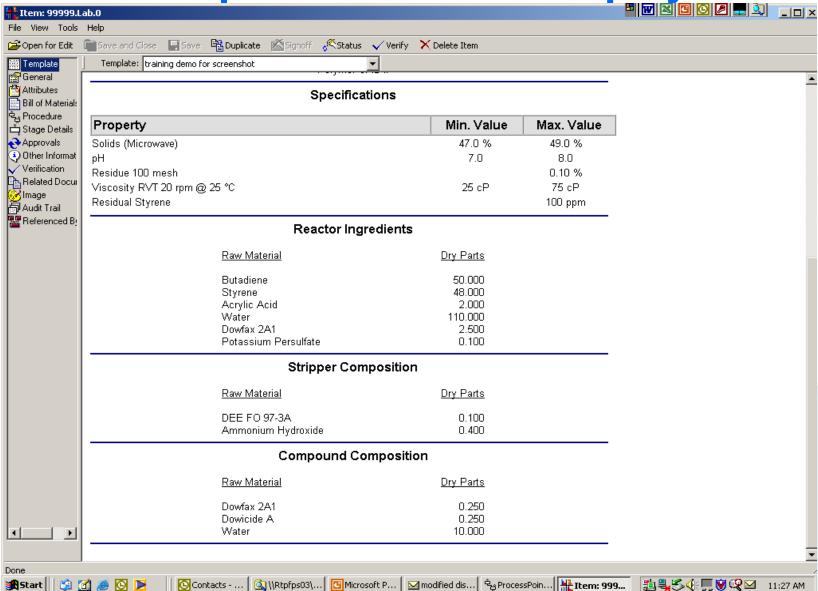




















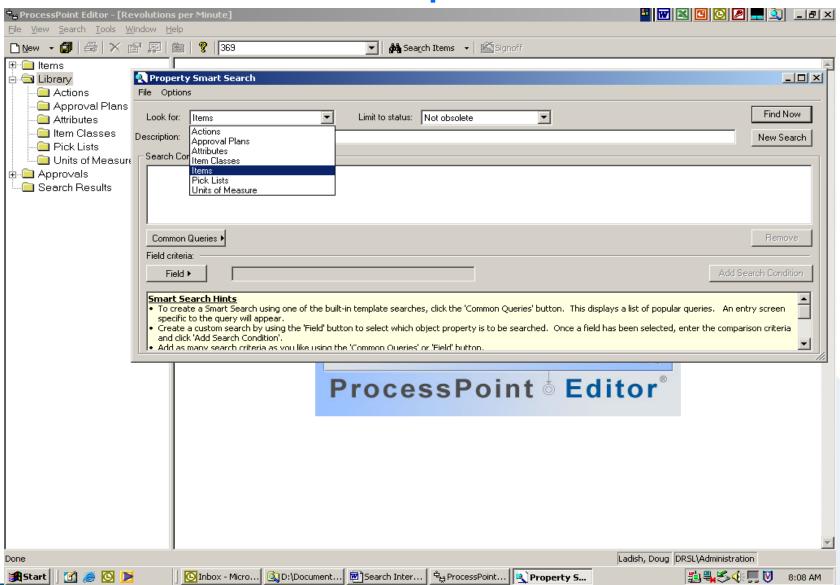


Anticipated Benefits

- Enhanced collaboration
- Improved scale-up practices
 - Fewer errors
 - Reduced time to manufacturing
 - Improved quality
 - Metrics on new product development process
- Improved management of change
 - Single authoritative source of data
 - Networked application
 - User defined displays of data
- Searchable Data Base

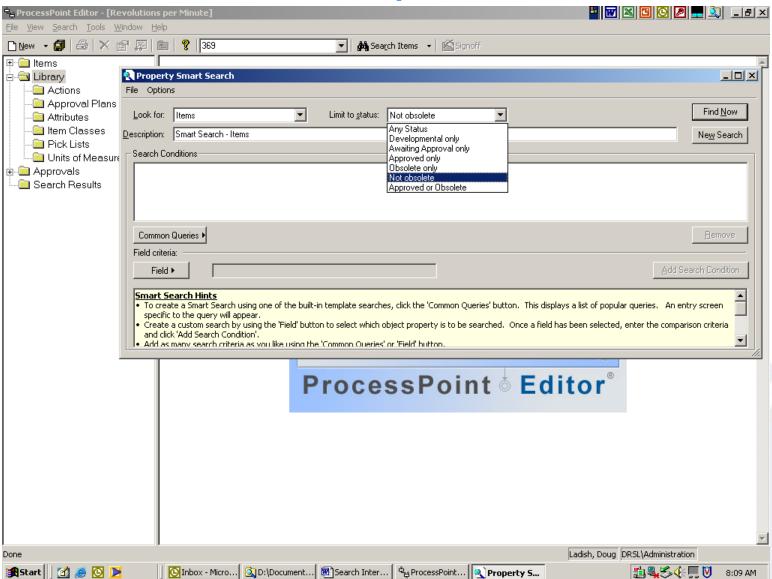






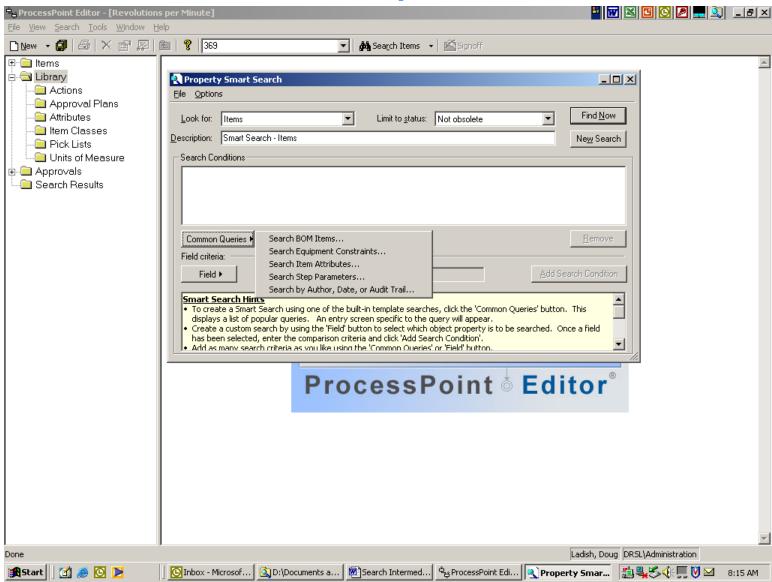






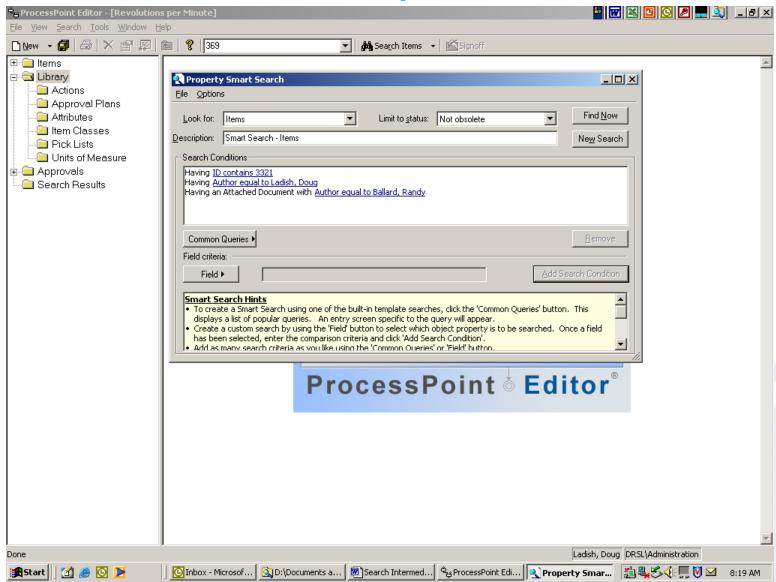






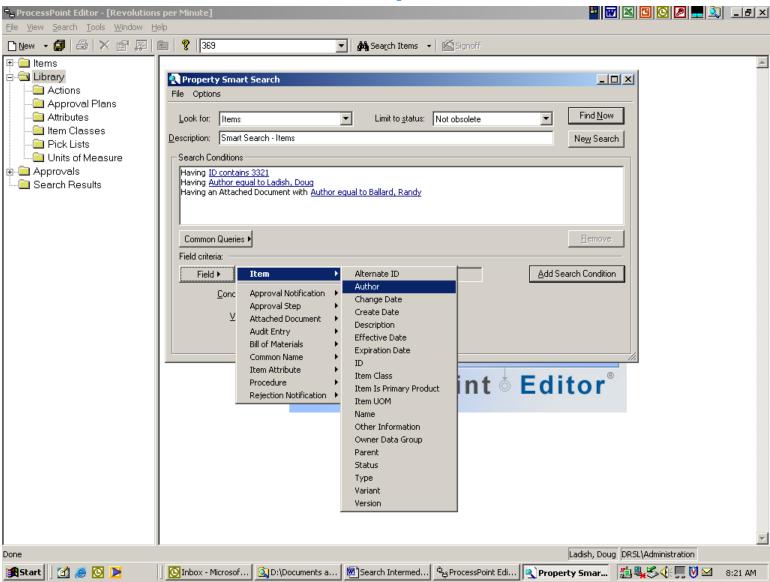






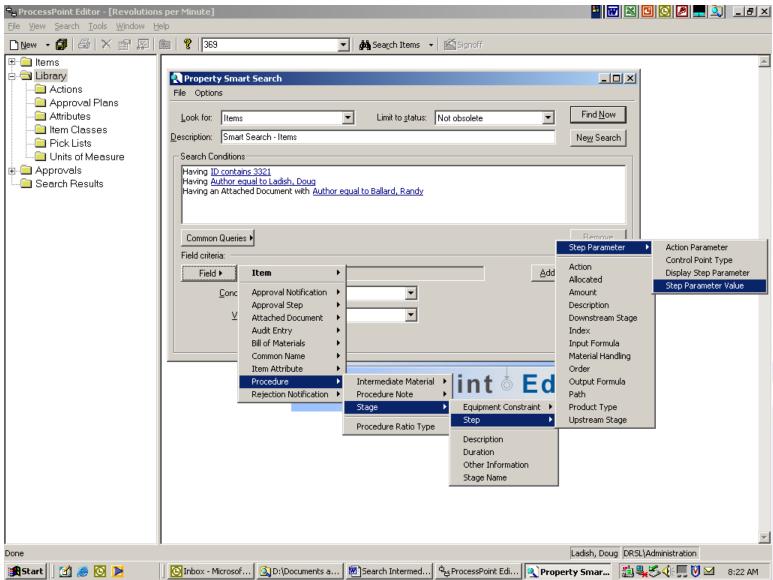






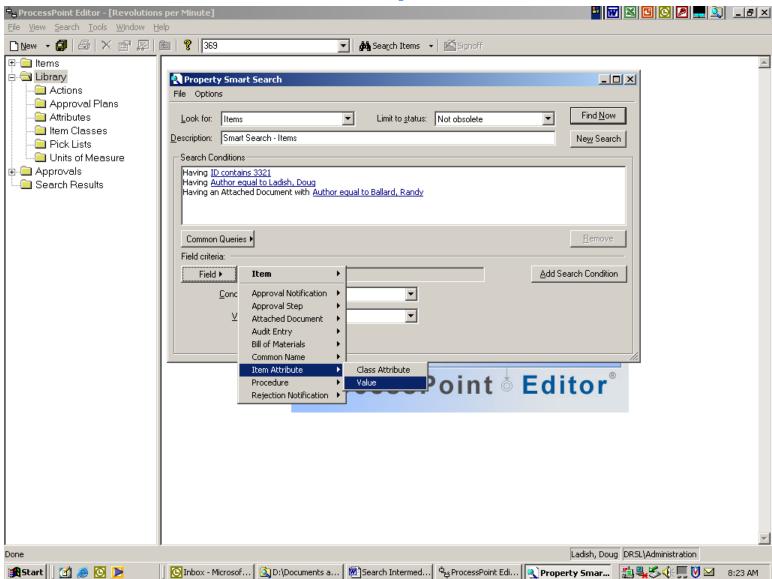






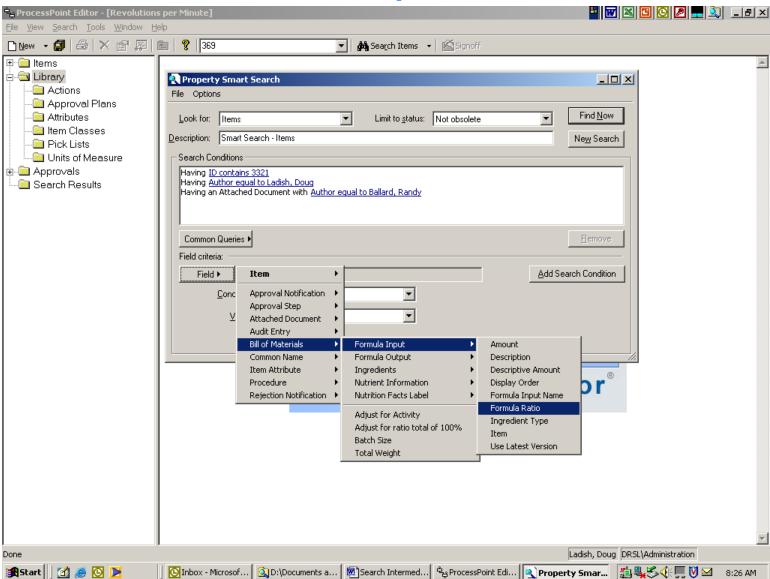
















Summary – Benefits Realized

Single, authoritative source of product information for other business systems.

- Master Recipes composition, DCS procedure and parameters, LIMS specifications
- Raw Materials approved materials and receiving specifications
- Enterprise accounting material masters, scheduling, costing
- Regulatory national chemical inventories and FDA status
- Marketing active products, package types and sales specifications

Product innovation management

- Recipes reflect both "wet" and "dry" composition
- Organizational collaboration
- Accuracy of development plans and results
- Searchable data base
- Record of changes

Intellectual property

- Faster, more insightful management of change
- Record of changes both events and details
- Limited access to view or change as appropriate





End



