



# SpecsIntact and The UFGS Master

NASA Facilities Engineering and Real Property Conference

May 10 – 12, 2011

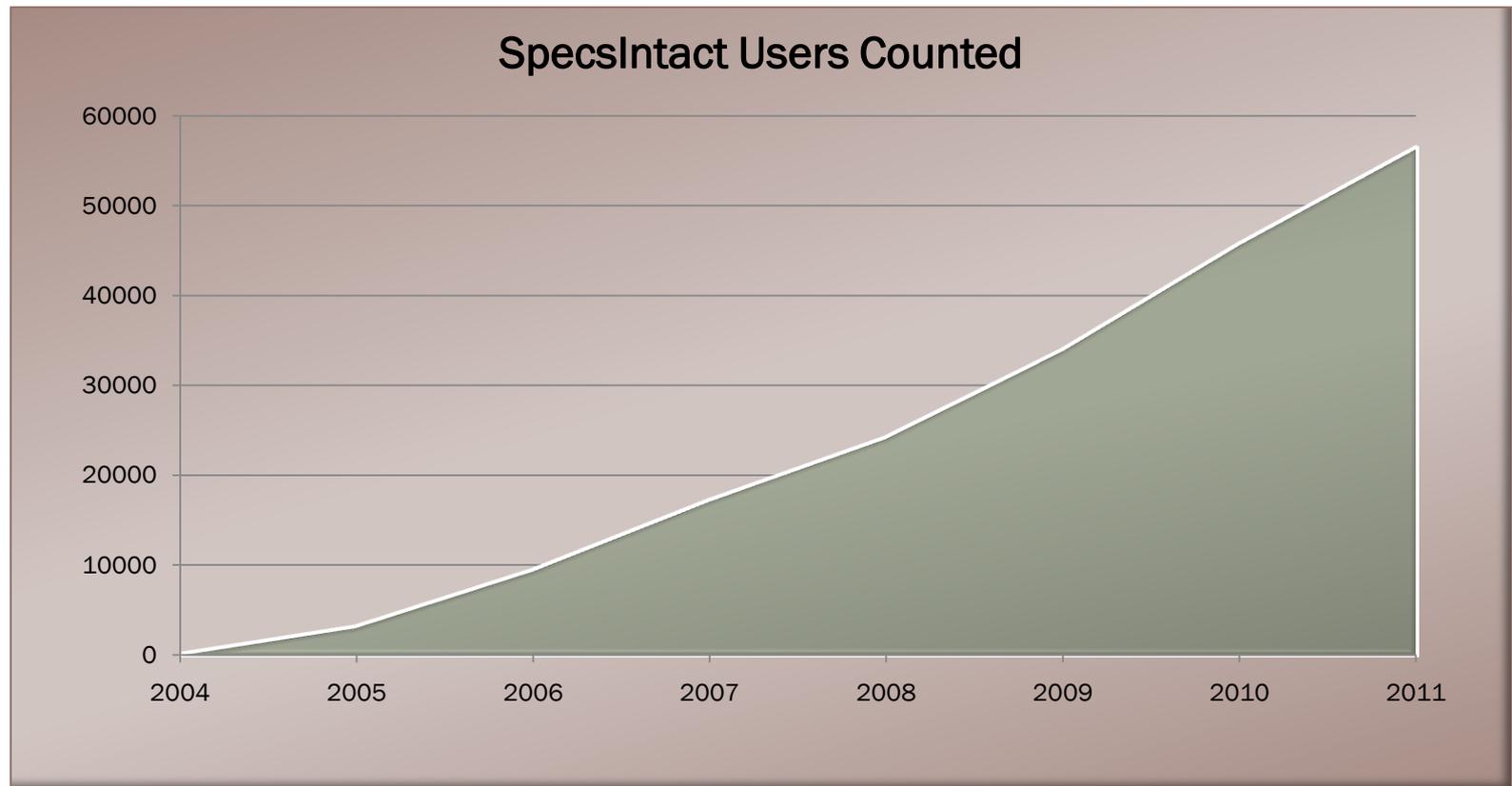
Presented By:  
Cheryl Fitz-Simon  
Dan Evans

# Overview

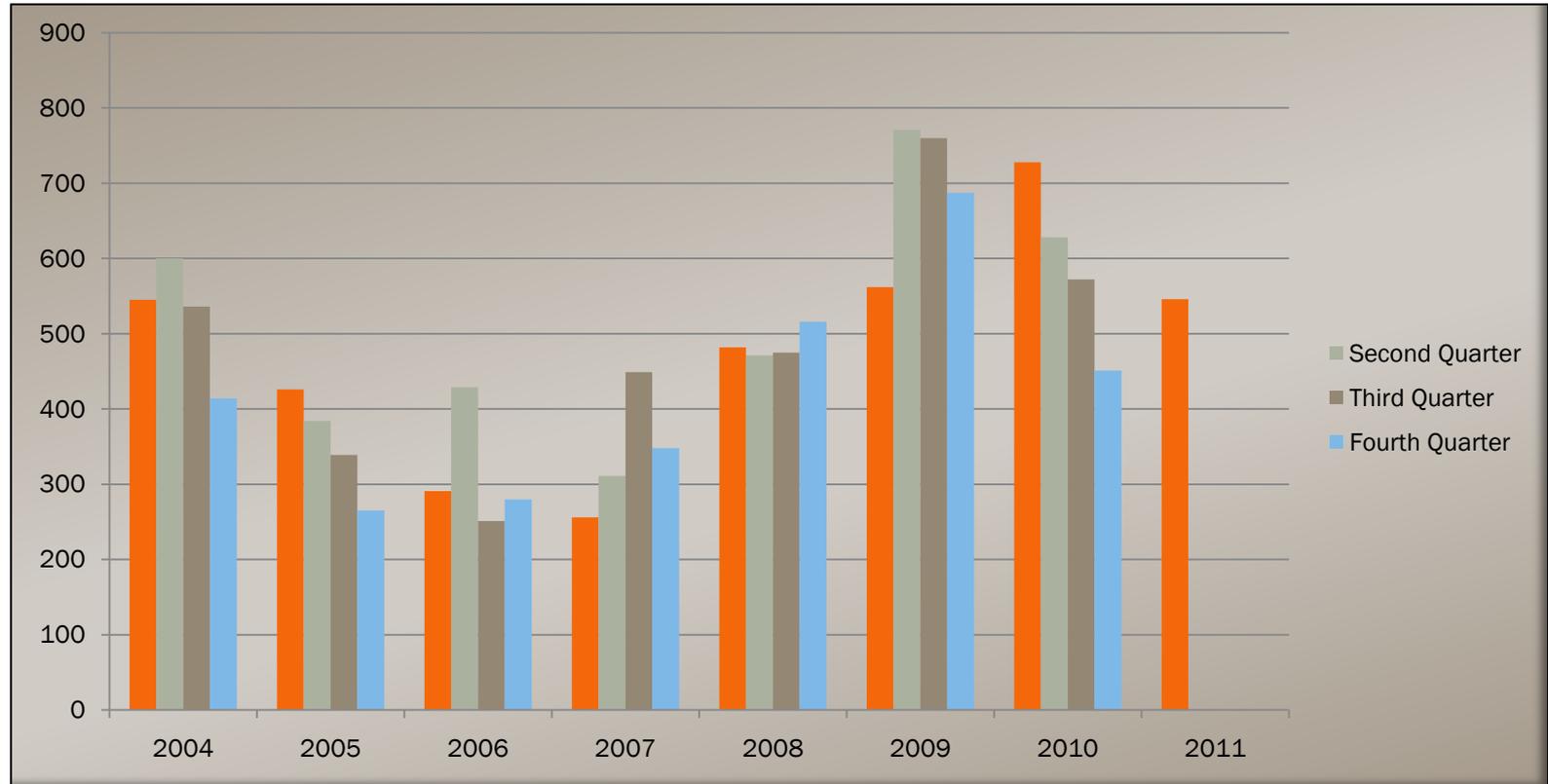
- Specsintact Overview
- Specsintact Web Site And Documentation
- Specsintact Features
- Unified Facilities Guide Specifications (UFGS) Master

# SpecsIntact Users

- Counted Over 56,000 Users Since 2004



- Average Of 2,535 Calls A Year Since 2009



- General Information
  - Software
  - Masters
  - Support
  - News Updates
  - Hyperlinks To Related Resources
  
- Extensive Help Center
  - Installation Guide
  - QuickStart Guides
    - Traditional Paragraph Numbering
    - Automatic Numeric Paragraph Numbering
    - Automatic Alphanumeric Numbering

# Web Site and Documentation

- QuickTours
- Knowledge Base
  - Frequently Asked Questions
  - Troubleshooting
  - Release Notes
  - Technical Notes
- Online Help
- Specsintact Brochures

# Web Site and Documentation

- Future Updates
  - New Learning Guide For “Advanced Editing Tools And Techniques”
    - Reference Wizard
    - Submittals
    - Bracket Replacement
    - Tailoring
- Screencasts

# SpecsIntact Explorer



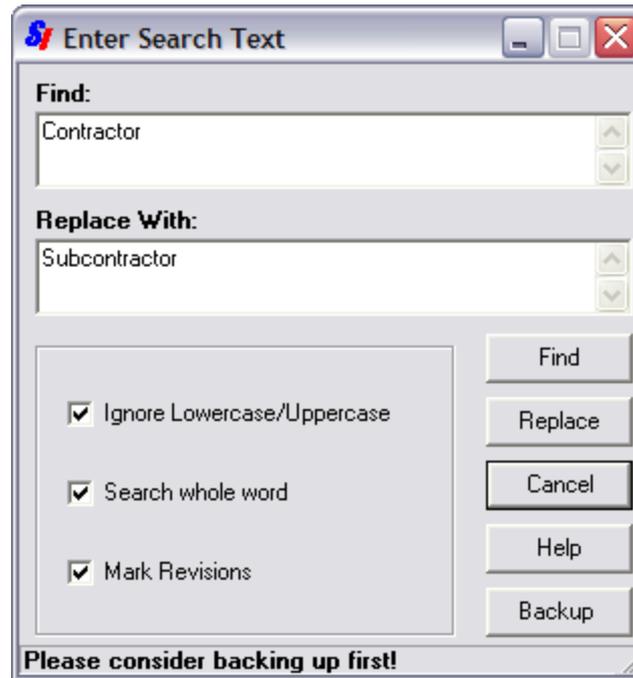
Key Features of Current Release v4.5.0

# SpecsIntact Explorer

- Drag And Drop Section Within Specsintact
  - From A Master To A Job Or From One Job To Another
- Drag And Drop Sections From Outside Specsintact
  - From Windows Explorer To The SI Explorer
- Longer Job and Master Names
  - Now supports up to 16 continuous characters

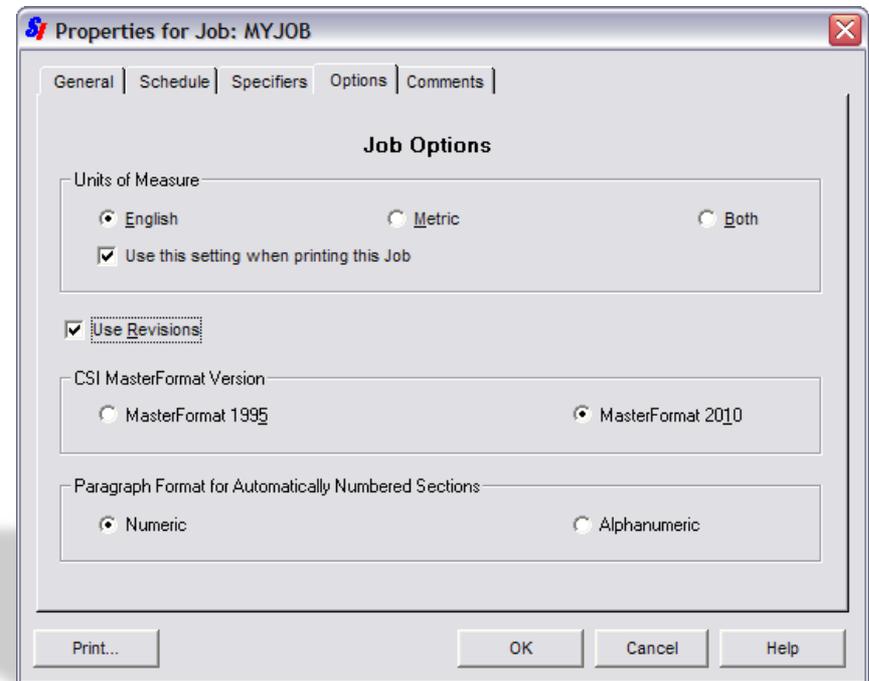
# Global Search and Replace

- Provides Capability To Search And Replace Text For An Entire Job Or Master



# Global Settings

- Designed To Store Specific Settings For Jobs And Masters
  - Units Of Measure Options
  - Use Revisions
  - CSI MasterFormat™ Version
  - Paragraph Format For Automatically Numbered Sections



# Global Settings

## Numeric

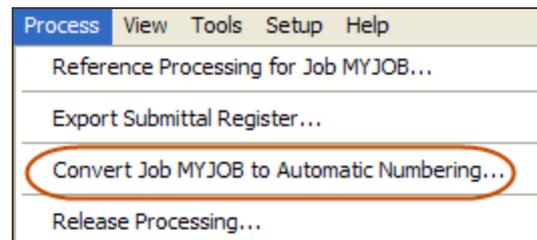
Numeric	
PART 1	GENERAL
1.1	Article
1.1.1	Paragraph
1.1.1.1	Subparagraph
1.2	Article
1.3	Article
1.3.1	Paragraph
1.3.2	Paragraph
1.3.2.1	Subparagraph

## Alphanumeric

Alphanumeric	
PART 1	GENERAL
1.01	Article
A.	Paragraph
1.	Subparagraph Level 1
a.	Subparagraph Level 2
1)	Subparagraph Level 3
a)	Subparagraph Level 4
1.03	Article
A.	Paragraph
B.	Paragraph
1.	Subparagraph Level 1

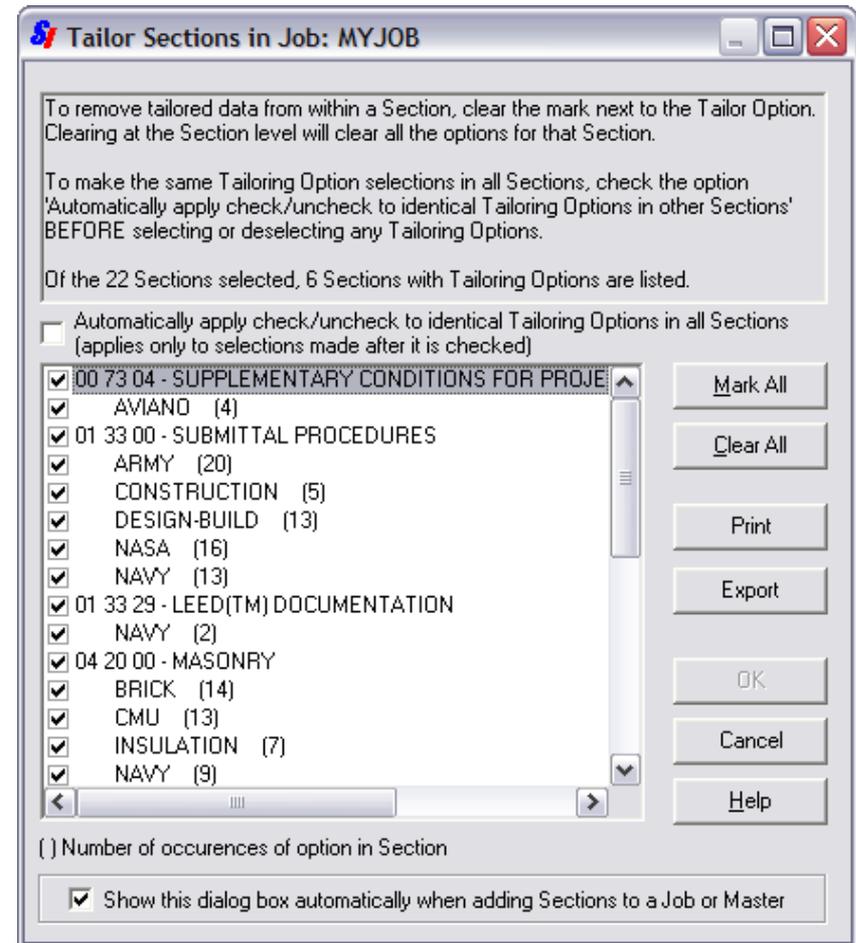
# Convert to Automatic Paragraph Numbering

- New Tool To Convert Existing Jobs Or Masters To Use The Automatic Paragraph Numbering



# Tailoring Options

- Pre-editing Tool
  - Option To Apply Selections To Every Section



# Export Tailoring Options

**Export Tailoring Options**

**Web Format**

- Create Web File
- Use Color

**Change Row Coloring:**

- Do Not Color Rows
- By Section Number
- Every  Row(s)

**Comma Delimited Format**

- Create Comma Delimited File

**File Name Options**

File Name (no extension):

Folder:

**Email Options**

- Email the File(s) to the Following Recipients

# Exported Tailoring Options List

## TAILORING OPTIONS

TITLE: SpecsIntact Documentation

JOB NAME: Example

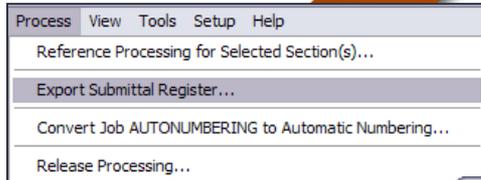
LOCATION: Kennedy Space Center, FL

CONTRACT NO:

CONTRACTOR:

Line	Remove	Section Number	Specification Section	Tailoring Option	Count	Comments
1		00 73 04	SUPPLEMENTARY CONDITIONS FOR PROJECTS	AVIANO	4	
2		01 33 00	SUBMITTAL PROCEDURES	ARMY	20	
3		01 33 00	SUBMITTAL PROCEDURES	CONSTRUCTION	5	
4		01 33 00	SUBMITTAL PROCEDURES	DESIGN-BUILD	13	
5		01 33 00	SUBMITTAL PROCEDURES	NASA	16	
6		01 33 00	SUBMITTAL PROCEDURES	NAVY	13	
7		01 33 29	LEED(TM) DOCUMENTATION	NAVY	2	
8		04 20 00	MASONRY	BRICK	14	
9		04 20 00	MASONRY	CMU	13	
10		04 20 00	MASONRY	INSULATION	7	
11		04 20 00	MASONRY	NAVY	9	
12		04 20 00	MASONRY	PC ITEMS	5	
13		04 20 00	MASONRY	PREFACED CMU	1	
14		04 20 00	MASONRY	STONE	2	
15		22 00 00	PLUMBING, GENERAL PURPOSE	AIR FORCE	13	
16		22 00 00	PLUMBING, GENERAL PURPOSE	ARMY	12	
17		22 00 00	PLUMBING, GENERAL PURPOSE	COMPRESSED AIR SYSTEM	5	
18		22 00 00	PLUMBING, GENERAL PURPOSE	FIXTURES	5	
19		22 00 00	PLUMBING, GENERAL PURPOSE	NASA	14	
20		22 00 00	PLUMBING, GENERAL PURPOSE	NAVY	17	
21		22 00 00	PLUMBING, GENERAL PURPOSE	PIPING	35	
22		22 00 00	PLUMBING, GENERAL PURPOSE	PRESSURE PIPING	3	
23		22 00 00	PLUMBING, GENERAL PURPOSE	PUMPS	4	
24		22 00 00	PLUMBING, GENERAL PURPOSE	WATER HEATERS	9	
25		26 56 36.00 40	FLOOD LIGHTING	NAVY	3	

# Export Submittal Register



**Submittal Register**

**Web Format**

- Create Web File
- Use Color
- Change Row Coloring:**
  - Do Not Color Rows
  - By Section Number
  - Every  Row(s)

**Comma Delimited Format**

- Create Comma Delimited File

**Excel Format**

- Create Excel File
- Use Color
- Change Row Coloring:**
  - Do Not Color Rows
  - By Section Number
  - Every  Row(s)
- Bold Lines Between Sections

**File Name Options**

File Name (no extension):

Folder:

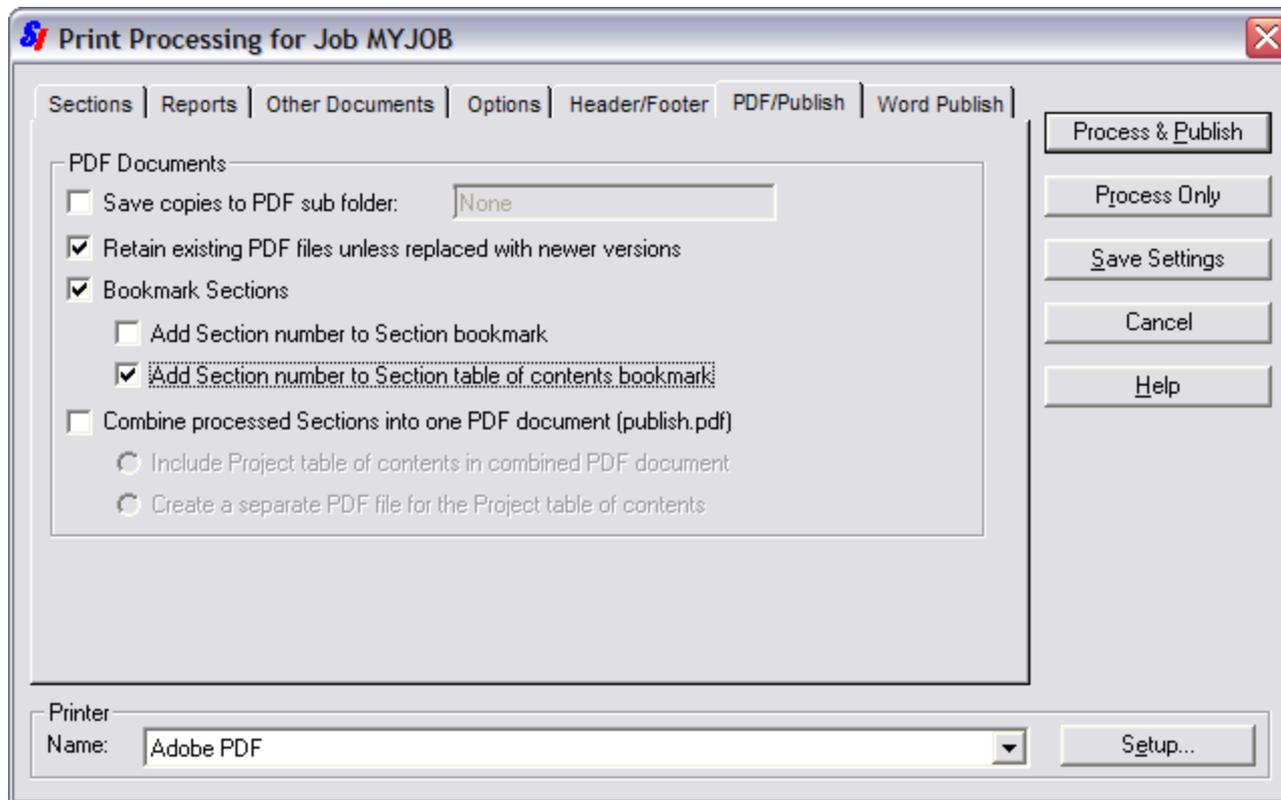
**Email Options**

- Email the File(s) to the Following Recipients
- 
-



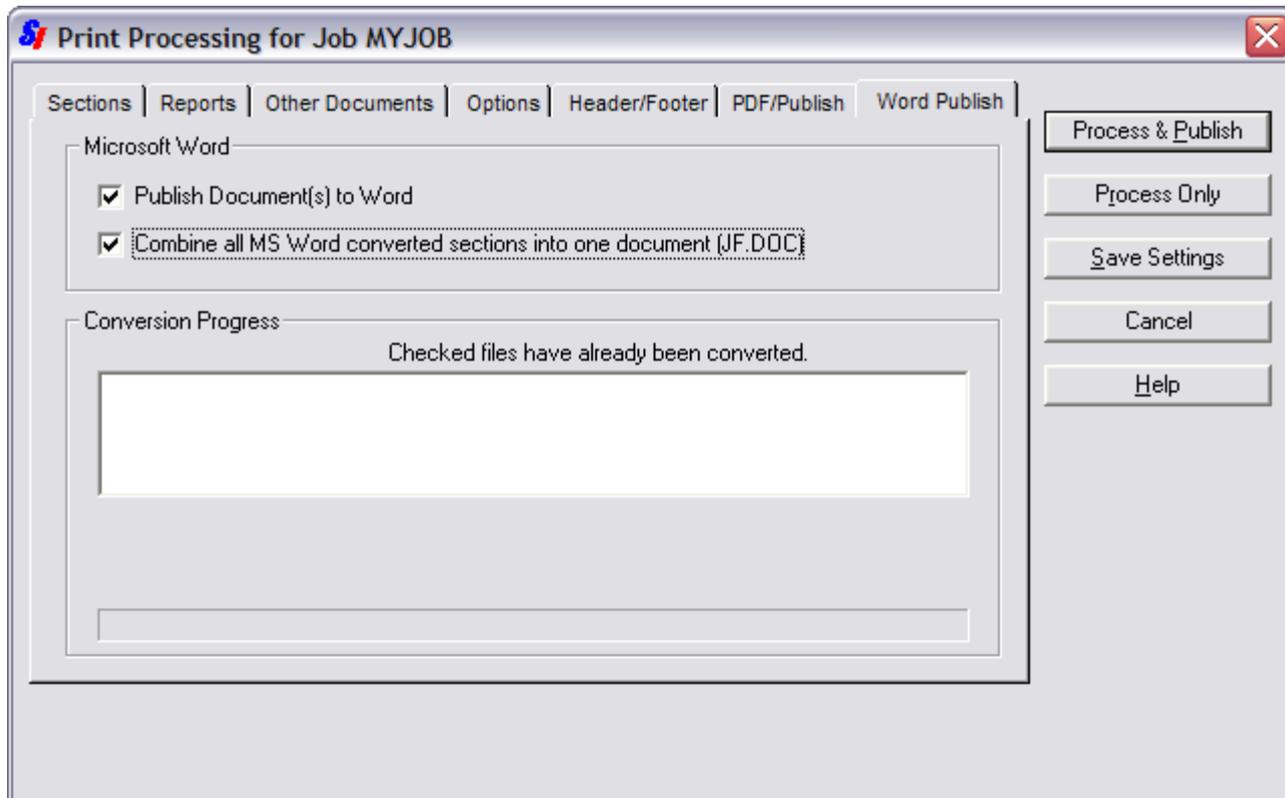
# Publishing to Adobe PDF

- Built-in Feature To Publish Guide Specifications To PDF



# Publishing to Microsoft Word

- Built-in Feature To Publish Guide Specifications To Microsoft Word®



# SpecsIntact Editor



Key Features of Current Release v4.5.0

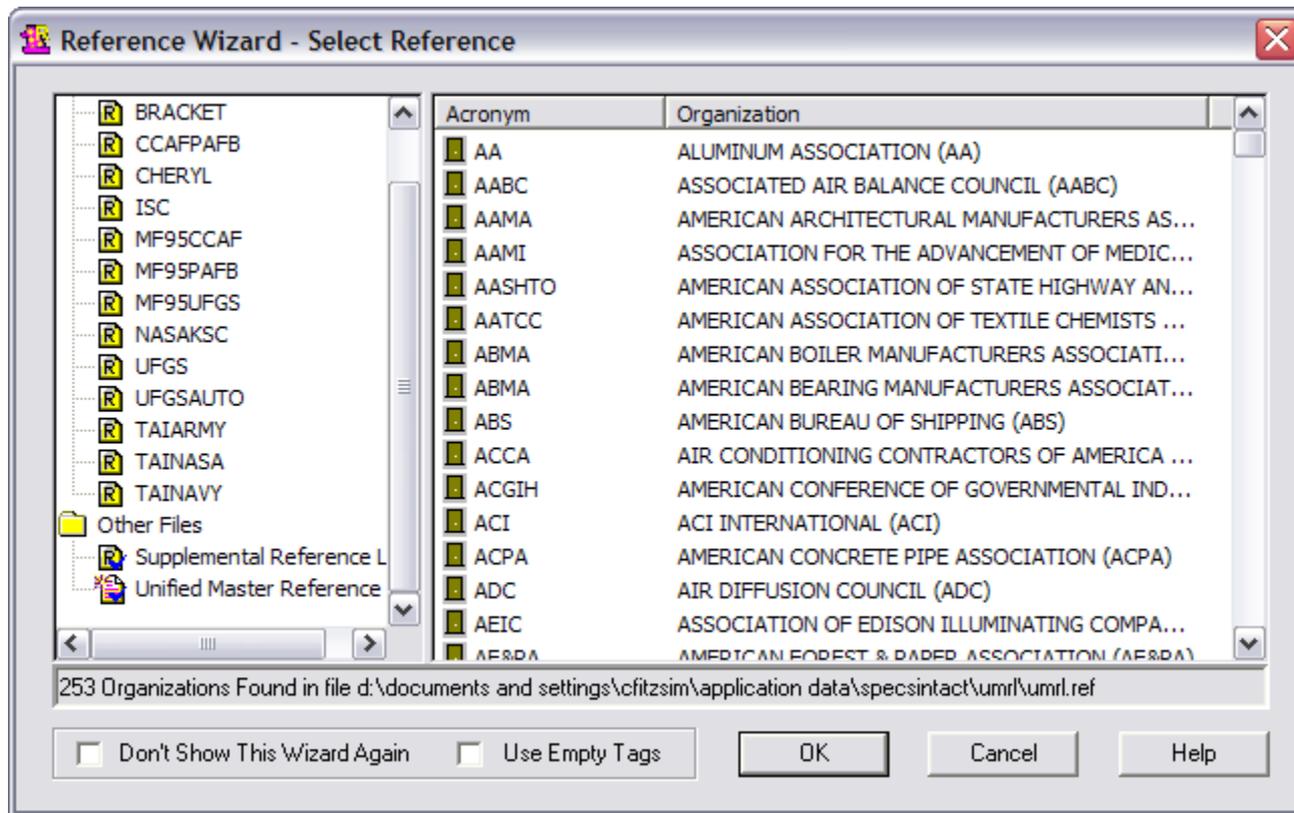


# Reference Wizard

- To Launch The Reference Wizard, Select One Of The Reference Buttons Located On The Tags Bar



# Reference Wizard



# Formatted Tables



**Insert Table**

Size

Number of columns: 4

Number of rows: 4

Number of header rows (printed on each page): 1

Borders

Show borders: Always

Border style: Thin

OK Cancel Help

- Merge Cells
- Unmerge All Cells

---

- Justify ▶

---

- Set Background Color for ▶
- Clear Background Color for ▶

---

- Insert ▶

---

- Delete ▶

---

- Make All Rows Same Height
- Make Selected Columns Same Width

---

- Import Excel XML Spreadsheet
- Export Excel XML Spreadsheet

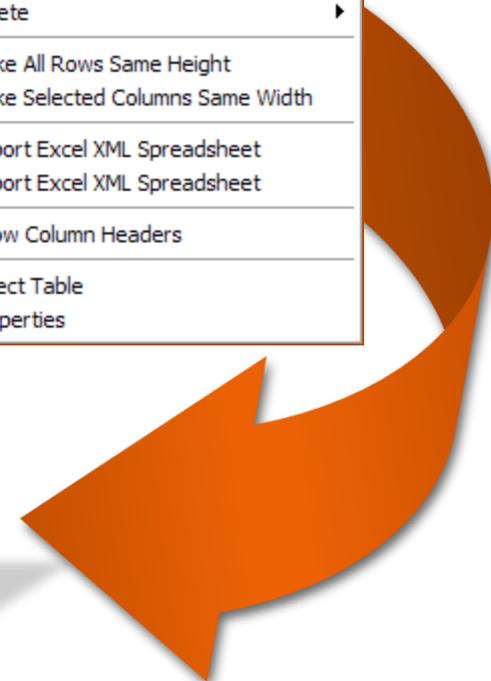
---

- Show Column Headers

---

- Select Table
- Properties

DEPTH MINIMUM (inch)	WIDTH OF UNIT NOMINAL	NUMBER OF CELLS PER UNIT (inch)	WIDTH OF CELLS NOMINAL (inch)
3	24	4	3-5/8
3	12	1	9-5/8
6	24	3	5-5/8



# Bracket Replacement



**Replace Bracketed Text** [Close]

Select Item(s) to Replace Bracketed Text

for Contractor Quality Control approval.  
for information only. When used, a designation following t

Replace

Ignore

Cancel

Help

Undo Last

Hide Details

Replace Bracketed Text With:

- Selected Item(s), Above
- Existing Text (remove brackets)
- No Text
- New Text, Below

Don't Move This Dialog Box

Replace Deleted Characters with Spaces Inside Tables

Occurrences

Found: 0001 Edited: 0000

Pause After Each Change

[Up] [Down]

# Automatic Paragraph Numbering View

Easily Toggle Back And Forth From Numeric To Alphanumeric With One View Option

Numeric

View	Insert	Format	Table
<input checked="" type="checkbox"/> Toolbar			
<input checked="" type="checkbox"/> Tags Bar			
<input checked="" type="checkbox"/> Status Bar			
Zoom In		Alt+Z	
Zoom Out		Alt+Y	
Tags		Alt+S	
Notes		Alt+N	
<input checked="" type="checkbox"/> Revisions		Alt+R	
<input checked="" type="checkbox"/> English		Alt+G	
Metric		Alt+M	
Both		Alt+B	
Tailoring Options...			
Marks		Alt+A	
<input checked="" type="checkbox"/> Colors		Alt+L	
Numeric Paragraphs			

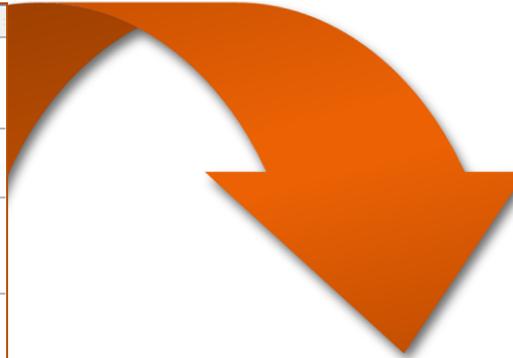
## 1.2 SYSTEM DESCRIPTION

### 1.2.1 General Requirements

Designate Deep Longspan Steel Joists on the drawings in accordance with the standard designations of the Steel Joist Institute. Joists of other standard designations or joists with properties other than those shown may be substituted for the joists designated provided the structural properties are equal to or greater than those of the joists shown and provided all other specified requirements are met. Erect joist framing conforming to 29 CFR 1926.757. Secure all joist bridging and anchoring in place prior to the application of any construction loads. Distribute temporary loads so that joist capacity is not exceeded. Do not apply loads to bridging.

### [1.2.2 Metric Dimensions

## ]1.3 SUBMITTALS



Alphanumeric

## 1.02 SYSTEM DESCRIPTION

### A. General Requirements

Designate Deep Longspan Steel Joists on the drawings in accordance with the standard designations of the Steel Joist Institute. Joists of other standard designations or joists with properties other than those shown may be substituted for the joists designated provided the structural properties are equal to or greater than those of the joists shown and provided all other specified requirements are met. Erect joist framing conforming to 29 CFR 1926.757. Secure all joist bridging and anchoring in place prior to the application of any construction loads. Distribute temporary loads so that joist capacity is not exceeded. Do not apply loads to bridging.

### [ B. Metric Dimensions

## ]1.03 SUBMITTALS

# Automatic Paragraph Numbering

- Released In Specsintact V4.5.0 On April 14, 2011
- Two Numbering Schemes, Numeric And Alphanumeric
  - Extensive Internal And Private Testing Performed
  - Paragraph Numbers And The Three Spaces Are Automatically Generated
  - Eliminates Paragraph Numbers And Spaces From All Titles
  - For Alphanumeric Numbering, Specsintact Adds Left Margins For Subparts Providing Structured Alignment
  - Provides One-click Switching

# Future Enhancements

- New Specsintact Interface
- Submittal Wizard
- Specsintact PDF Driver

# Unified Facilities Guide Specifications (UFGS)



Presented by: Richard Hungate

# Progression of Major Steps Forward

2005	Coordination and adoption of MOU between DoD and NASA
2006	Joint Effort to Comply with CSI MasterFormat™ 2004 Renaming and Renumbering to new 49 Division Format  Unify NASA and DoD Unified Master Reference List (UMRL)
2007 Thru 2009	Agreement Proposed and Accepted by DoD for the Unification of the UFGS Database Continued Merger Continued Disassembly
2010	Adopted MasterFormat™ 2010 Continued Unification Continued Disassembly
2010 Thru 2011	Continued Unification Continued Disassembly Adopted MasterFormat™ 2011

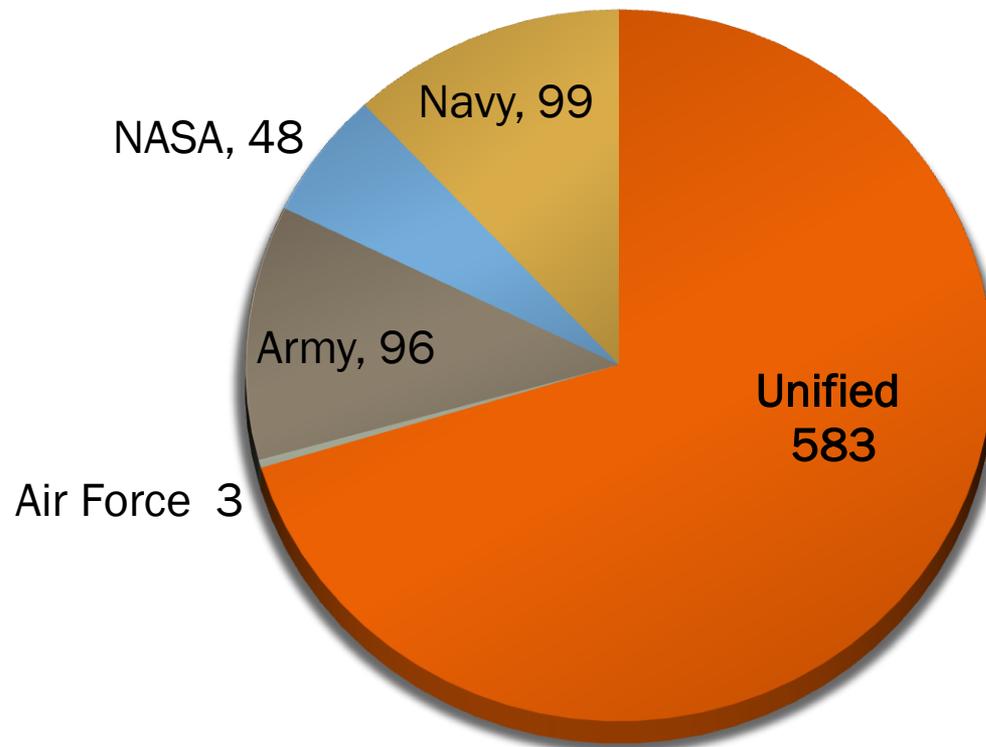
# Progression of Major Steps Forward Cont'd

- Major Realignment Between Government Agencies And Construction Industry
  - Construction Operations Building Information Exchange COBie
  - Building Information Modeling (BIM)
  - Uniformat
  - US Federal Green Guidelines

# NASA Merger with UFGS

- Performed Gap Analysis In 2004 For NASA, NAVFAC And USACE
- Original NASA Database Consisted Of 221 Specifications
  - 36 Previously Merged
  - 90 Deleted (Redundant With UFGS)
- Current Database Consists= Of 105 Specifications
  - NASA Unique
  - Submitted For Review And Merger
  - In Review With ISC-DE Or UFGS Discipline Working Group (DWG And Technical Proponents)

# Unified Facilities Guide Specifications (UFGS)



# Unified Facilities Guide Specifications (UFGS)

- UFGS Follows The Latest Version Of CSI MasterFormat™
  - Supports Division 00 – 49
  - UFGS Unified For Use By All Participating Agencies Have A Level 3 Or Level 4 MasterFormat™ Number
  - UFGS That Are Agency-specific Have A Fifth Level Number Identifying It As An Agency Specific
    - A specification that has a fifth level number
    - “10” indicates USACE
    - “20” indicates NAVFAC
    - “30” indicates AFCESA
    - “40” indicates NASA

# Unified Facilities Guide Specifications (UFGS)

- Unified Master Reference List (UMRL)
  - Document Lists Publications Referenced In The Unified Facilities Guide Specifications
  - Contracted With Information Handling Services (IHS) And Coordinated With DoD
  - The UMRL Is Updated On A Continual Basis
  - The 01 42 00 SOURCES FOR REFERENCE PUBLICATIONS Include All Organizations Listed In The UMRL

# UFGS Sustainability

- Leadership In Energy And Environmental Design (LEED™) Documents Represents The U.S. Green Building Council's Efforts To Develop Standard
  - Improves Environmental And Economic Performance Of Commercial Buildings And Equipment
  - Uses Established And/Or Advanced Industry Principles, Practices, Materials And Standards
- Section 01 33 29 LEED™
  - Covers The Requirements For Providing Documentation And Obtaining Certain Credits To Acquire LEED™ Certification
  - Projects Are Not Registered With USGBC For Validation Of Credits Earned
  - Validation Of Credits Earned Will Be Accomplished By The Government

# UFGS Sustainability

- Section 01 62 35 RECYCLED / RECOVERED MATERIALS (07/06)
  - Covers The Requirements For Use Of Products Containing Recycled Or Recovered Materials
  - Implementation Of Resource Conservation And Recovery Act RCRA
  - Promotes The Use Of Products Containing Recycled Materials
  - Cost Effective Manner, Items Containing The Highest Percentage Of Recycled And Recovered Materials
- Us Green Building Council (USGBC) Collaborating Organizations Referenced Within The UFGS

# UFGS Sustainability

- US Green Building Council (USGBC) Collaborating Organizations Referenced Within The UFGS
  - Carpet And Rug Institute (CRI)
  - Master Painters Institute (MPI)
  - National Association Of Corrosion Engineers (NACE)
  - The Society For Protective Coating (SSPC)

# US Federal Green Construction Guide for Specifiers

- US FGCGS – Executive Order 13423:  
“Strengthening Federal Environmental, Energy  
And Transportation Management” – January 24,  
2007
- **Five Guiding Principles:**
  - Employing Integrated Design
  - Optimizing And Conserving Water
  - Enhancing Indoor Environmental Quality
  - Reducing The Environmental Impact Of Materials



# US Federal Green Construction Guide for Specifiers

- Instructions for Implementing Executive Order 13423
  - Executive Order 13423 includes a directive for Federal Agencies to:
  - “ensure that
    - (i) new construction **Guiding Principles** and major renovation of agency **buildings** comply with the requirements for Federal Leadership in High Performance and Sustainable Buildings set forth in the Federal Leadership in High Performance and Sustainable Buildings Memorandum of Understanding (2006), and
    - (ii) **15 percent of the existing Federal capital asset buildings inventory of the agency as of the end of fiscal year 2015** incorporates the sustainable practices in the Guiding Principles....”

# US Federal Green Construction Guide for Specifiers

- B. Applicability and Schedule

- (1) Appropriate organizational level(s) for EMS
- (2) Tenant, Contractor, and concessionaire activities
  - Where tenant, contractor and concessionaire activities affect an agency's environmental, transportation, or energy issues, those activities shall be addressed in the development, implementation, and maintenance of the EMS. Requirements shall be included in all appropriate contracts to ensure that contractors' roles and responsibilities under the EMS are properly addressed. Where an agency owns or manages public lands on which non-governmental entities are present and whose activities are permitted, licensed, or otherwise authorized or regulated, that agency shall, at a minimum, consider the environmental impacts of such activities in its EMS (note: EPA Affirmative Procurement Form Attached)



# US Federal Green Construction Guide for Specifiers

## ○ (3) Schedules

- Facilities previously identified under E.O. 13148 as “appropriate facilities” and already underway with implementation as of the date of the E.O., shall ensure their EMS is fully implemented by December, 2008, and maintained as specified in this chapter of the instructions. Agencies may revise schedules relative to this deadline after consultation with OFEE, specifically in regard to the definition of “fully implemented” requiring an external audit.
- Agencies developing additional EMSs are a result of E.O. 13423 and these instructions shall establish an EMS implementation schedule, in consultation with OFEE.

# US Federal Green Construction Guide for Specifiers

- Task
  - Incorporate 79 EPA Guidelines Into The UFGS Master Database
    - 24 within Division 01
    - 55 within Divisions 02 through 48
      - Also includes “LEED” requirements
- Recommended Task Approach
  - Incorporate Guidelines Into Recommended Division 01 Sections (21 Sections)
  - Create 19 New Sustainable Design Requirement Sections For Division 02 – 49



# US Federal Green Construction Guide for Specifiers

- Recommended Task Approach
  - The Numbering Sequence Relates To CSI MasterFormat™ Levels One And Two, From Common Work Results:
    - Example **03 05** 00 – Common Work Results For Concrete
    - Plus A Level 3 And 4 Number Relating To 01 **81 13** – Sustainable Design Requirements, Resulting In:
      - **03 05 81.13** – Sustainable Design Requirements For Concrete
    - Remaining Balance Of UFGS Sections Within Each Applicable Division Will Reference The **Xx 05 81.13** Section Number.
  - This Approach Minimizes The Impact On The UFGS Master Database, And Reduces The Extent Of Future Maintenance Related To The Newly Emerging “Green Build” Industry.

# UFGS Sustainability

- Section 09 68 00 Carpet (05/10)
  - Green Council
    - Carpet and Rug Institute's (CRI) Green label Indoor Air Quality program
    - Volatile organic compounds (VOCs) are organic chemical compounds that have high enough vapor pressures under normal conditions to significantly vaporize and enter the atmosphere

# UFGS Sustainability

- Reliability Centered Building And Equipment Acceptance (RCBEA)
  - Testing Protocols
  - Quality Control
  - Life Cycle Monitoring (How Long A Piece Of Equipment Lasts And Cost And Maintenance Frequency)
- Four New NASA Master Sections
  - 01 83 00.07 40 Reliability Centered Acceptance For Facility Shells

# UFGS Sustainability

- Four NEW NASA Master Sections

Section	Date	Title
01 83 00.07 40	02/10	RELIABILITY CENTERED ACCEPTANCE FOR FACILITY SHELLS
01 83 13.07 40	02/10	RELIABILITY CENTERED ACCEPTANCE FOR SUPERSTRUCTURE PERFORMANCE REQUIREMENTS
01 86 12.07 40	02/10	RELIABILITY CENTERED ACCEPTANCE FOR MECHANICAL SYSTEMS
01 86 26.07 40	02/10	RELIABILITY CENTERED ACCEPTANCE FOR ELECTRICAL SYSTEMS

# General Section Maintenance

- Updating All NASA Sections To Conform To The Latest CSI SectionFormat
- Continuing Submittal Paragraph Maintenance
  - Re-locating Text In The Submittal Article To The Appropriate Subpart Level

# Questions



Thank You

