# SpecsIntact

## 2007

## NASA Facility Engineering
## &
## Real Property Conference

**Presented By:**

**Patricia Robinson and Cheryl Fitz-Simon**

# SpecsIntact

# &

# Unified Facilities Guide Specifications

# Progression of Major Steps Forward

# Progression of Major Steps Forward

- Coordination and adoption of MOU between DoD and NASA
- Joint Effort to Comply with CSI MF2004
  - Renaming and Renumbering to new 50 Division Format
- Merging NASA and DoD Unified Master Reference List (UMRL)
- Agreement Proposed and Accepted by DoD for Editing of UFGS Database

# Progression of Major Steps Forward

- Major realignment between Government Agencies and Construction Industry
  - Cobie
  - BIM
  - Uniformat

# Progression of NASA Specifications

# NASA Merging with Unified Facilities Guide Specifications (UFGS)

- 2004 Started Gap Analysis of NASA, NAVFAC, and USACE Specifications
- NASA'S Original Database Consisted of 221 Specifications

# NASA Merging with Unified Facilities Guide Specifications (UFGS)

- Original NASA Database Consisted of 221 Specifications
  - 36 Previously Merged
  - 60 Deleted (Redundant with UFGS)

- Current Database Consists of 125 Specifications
  - 12 NASA Unique Specifications
  - 8 Submitted for Review and Merger
  - 62 In Review with SGS-DE or UFGS Discipline Working Group (DWG)

# Unified Facilities Guide Specifications (UFGS)

# Unified Facilities Guide Specifications (UFGS)

- **836 Specifications Contained in UFGS**
  - **334 Specifications Preparing Activity is NAVFAC**
  - **377 Specifications Preparing Activity is USACE**
  - **125 Specifications Preparing Activity is NASA**

# Unified Facilities Guide Specifications

- **UFGS Follows CSI MasterFormat™ 2004**
  - **Supports Divisions 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 indicating 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

- **Unified Master Reference List (UMRL)**
  - **Document lists publications referenced in the Unified Facilities Guide Specifications**
  - **Establishes requirements for the work**
  - **The UMRL is maintained up-to-date on a continuing basis**
  - **A tool used in SpecsIntact for automatic reference updating**
  - **Guide Specification Section 01 42 00 SOURCES FOR REFERENCE PUBLICATIONS include all organizations listed in the UMRL**

# Unified Facilities Guide Specifications (UFGS) Sustainability

# UFGS Sustainability

- Leadership in Energy and Environmental Design (LEED™) documents represent the U.S. Green Building Council's efforts to develop a standard.
  - Improves environmental and economic performance of commercial buildings and equipment
  - Uses established and/or advanced industry principles, practices, materials and standards

# UFGS Sustainability

- **SECTION 01 33 29 LEED™ DOCUMENTATION (07/06)**
  - **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**

# 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)**

# UFGS Sustainability

- **SECTION 09 68 00  CARPET (01/07)**
  - **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**

# LEED™ *Projects*

**USACE**
**NAVFAC**
**NASA**

## DISTRIBUTION of FY07 ARMY MILCON & BRAC SPiRiT & LEED RATINGS

| MSC | Number of FY07 | SSD Not Applicable | P2 Field Blank | PENDING | BRONZE or LESS & LESS THAN CERTIFIED | SPiRiT | | | LEED-NC® | | | | Percent of Projects Meet'g or Exceed'g Goals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | SILVER | GOLD | PLATINUM | CERTIFIED | SILVER | GOLD | PLATINUM | |
| AED | 28 | 28 | | | | | | | | | | | - |
| GRD | 15 | 15 | | | | | | | | | | | - |
| HNC | | | | | | | | | | | | | - |
| LRD | 40 | 1 | | 20 | 1 | | 16 | | | 2 | | | 46% |
| NAD | 32 | 3 | 1 | 7 | | | 19 | | | 1 | 1 | | 72% |
| NAV | 6 | | | 6 | | | | | | | | | 0% |
| NWD | 26 | 2 | 1 | 1 | | | 7 | | | 15 | | | 92% |
| POD | 16 | 5 | | | | | 11 | | | | | | 100% |
| SAD | 30 | 7 | | 3 | | 1 | 13 | | 1 | 4 | 1 | | 78% |
| SPD | 5 | 2 | | | | 1 | 2 | | | | | | 67% |
| SWD | 33 | 12 | | 1 | | | 7 | | | 13 | | | 95% |
| TAC | 8 | 8 | | | | | | | | | | | - |
| CE | 239 | 83 | 2 | 38 | 1 | 2 | 75 | 0 | 1 | 35 | 2 | 0 | 72% |

## DISTRIBUTION of FY07 AIR FORCE MILCON & BRAC LEED RATINGS

| MSC | Number of FY07 Projects | SSD Not Applicable | P2 Field Blank | PENDING | BRONZE or LESS & LESS THAN CERTIFIED | SPiRiT RATING | | | LEED-NC® | | | | Percent of Projects Meet'g or Exceed'g Goals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | SILVER | GOLD | PLATINUM | CERTIFIED | SILVER | GOLD | PLATINUM | |
| AED | | | | | | | | | | | | | - |
| GRD | | | | | | | | | | | | | - |
| HNC | | | | | | | | | | | | | - |
| LRD | 19 | 3 | 1 | 12 | 1 | | | | 2 | | | | 13% |
| NAD | 12 | | | 8 | | | 2 | | 2 | | | | 17% |
| NWD | 8 | 2 | | | | | | | 3 | 3 | | | 100% |
| POD | 12 | 4 | | | | 1 | 1 | | 6 | | | | 75% |
| SAD | 29 | 26 | 1 | 2 | | | | | | | | | 0% |
| SPD | 12 | 6 | | 2 | 1 | | | | 3 | | | | 50% |
| SWD | 21 | 9 | | | | | | | 12 | | | | 100% |
| TAC | 2 | 2 | | | | | | | | | | | - |
| CE | 115 | 52 | 2 | 24 | 2 | 1 | 3 | 0 | 28 | 3 | 0 | 0 | 54.0% |

# NAVFAC LEED Self-Certified Buildings

- **NAVFAC Northwest**
  - **Waterfront Shops at IMF (FY03 P174), NBK Bangor, WA – Certified Level**
  - **HAZMAT Warehouse (FY05 P049), NAS Whidbey Island, WA – Certified Level**
  - **Design calcs/manufacture data - 20% water savings and 20-25% energy savings**
  - **CVN Maintenance Complex (FY05 P346), PSNS, WA – Certified Level**
  - **BEQ (FY06 P-155), NAVSTA Everett, WA – Certified Level**

# NAVFAC LEED Self-Certified Buildings

- **NAVFAC Southwest**
  - **AIRCRAFT FIRE RESCUE STATION (FY04 P-095), MCB Camp Pendleton, CA - Certified Level**
  - **BOQ (FY04 P-198), Naval Postgraduate School, CA – Silver Level**
  - **Educational Facility Repl. Phase 2 (FY04 P-203), Naval Postgraduate School, CA – Certified Level**
  - **Renovate Aircraft Maintenance Hanger (FY04 P-217), NAS Lemoore, CA - Certified Level**
  - **Taxiway/Control Tower (FY04 P-748), NAS North Island San Diego, CA - Certified Level**

# NAVFAC LEED Self-Certified Buildings

- **NAVFAC Southwest (Continued)**
  - **Squadron Operations Facility (FY04 P-751), NAS North Island San Diego, CA – Certified Level**
  - **Warfare Assessment Lab Addition, (FY05 P-008), NSWC Corona, CA - Certified Level**
  - **BEQ (FY05 P-014), MCB Camp Pendleton, CA – Silver Level**
  - **Consolidated OPS Center (FY05 P-032), MCB Camp Pendleton, CA – Certified Level**
  - **BEQ (FY05 P-440), MCAS Yuma, AZ - Certified Level**

# NAVFAC LEED Self-Certified Buildings

- **NAVFAC Southwest (Continued)**
  - **Operational Training Center (FY05 P-614), 29 Palms, CA – Certified Level**
  - **Reclamation/Conveyance Facility, Phase 1 (FY06 P-110), MCB Camp Pendleton, CA – Certified Level**
  - **Advanced Sensors Integration Facility, (FY06 P-121), NAWS China Lake, CA - Certified Level**

# NAVFAC LEED Self-Certified Buildings

- **NAVFAC Midlant**
  - **Mission Support Facility (FY04 P-251), NTC Dam neck, VA – Certified Level**
- **NAVFAC Washington**
  - **Defense Intelligence Center Addition Bolling AFB, Washington, DC – Certified Level**
  - **Presidential Helicopter Programs Support Facility (FY06 P-159A), NSWC Patuxent River, Patuxent River, MD – Certified Level**
  - **Presidential Aircraft Maintenance Hangar (FY06 P-448A), MCB Quantico, Quantico, VA – Certified Level**

# NAVFAC LEED Self-Certified Buildings

- **NAVFAC Washington**
  - **Wesley Brown Field House (FY06 P-334), USNA, Annapolis, MD – Certified Level**

- **NAVFAC Midwest/NAVFAC Southeast**
  - **RTC Barracks (FY01), Naval Training Center, Great Lakes, IL – Silver Level**
  - **RTC Barracks (FY02), Naval Training Center, Great Lakes, IL – Silver Level**
  - **RTC Barracks (FY04 P-736), Naval Training Center, Great Lakes, IL – Certified Level**

# NAVFAC LEED Self-Certified Buildings

- **NAVFAC Washington**
  - **Wesley Brown Field House (FY06 P-334), USNA, Annapolis, MD – Certified Level**

- **NAVFAC Midwest/NAVFAC Southeast**
  - **RTC Barracks (FY01), Naval Training Center, Great Lakes, IL – Silver Level**
  - **RTC Barracks (FY02), Naval Training Center, Great Lakes, IL – Silver Level**
  - **RTC Barracks (FY04 P-736), Naval Training Center, Great Lakes, IL – Certified Level**

# NAVFAC LEED Self-Certified Buildings

- **NAVFAC Midwest/NAVFAC Southeast**
  - **RTC Barracks (FY04 P-737), Naval Training Center, Great Lakes, IL – Certified Level**
  - **RTC Barracks (FY04 P-738), Naval Training Center, Great Lakes, IL – Certified Level**
  - **RTC Barracks (FY04 P-739), Naval Training Center, Great Lakes, IL – Certified Level**
  - **RTC Barracks (FY06 P-740), Naval Training Center, Great Lakes, IL – Certified Level**
  - **RTC Barracks (FY06 P-741), Naval Training Center, Great Lakes, IL – Certified Level**

# NAVFAC LEED Self-Certified Buildings

- **NAVFAC EUROPE**
  - **Base Ops Support I (FY04 P-635), NAS Sigonella, Italy – Certified Level**
  - **Consolidated Santo Stefano Facilities Bldg M (FY04 P-995), Naval Support Facility, La Maddalena, Italy – Certified Level**
  - **Consolidated Santo Stefano Facilities Bldg W (FY04 P-995), Naval Support Facility, La Maddalena, Italy – Certified Level**

# NAVFAC LEED™ Self-Certified Buildings

- **NAVFAC PACIFIC (NAVFAC HAWAII, NAVFAC GUAM, NAVFAC JAPAN)**
  - **Pacific Warfighting Center (FY06 P-113), CIC PAC, Pearl Harbor, HI – Certified Level**

# NAVFAC USGBC LEED Certified Buildings

- **Bachelor Quarters, Naval Training Center, Great Lakes, IL – LEED version 1 Certified**
  **http://www.eere.energy.gov/femp/highperformance/overview.cfm?ProjectID=513**

- **Building 850, Naval Base Ventura County Public Works Department, Port Hueneme, CA – LEED 2.0/2.1 Gold**
  **http://www.eere.energy.gov/femp/highperformance/overview.cfm?ProjectID=51**

# NAVFAC USGBC LEED™ Certified Buildings

- **Bachelor Quarters (FY03 P-301), Naval Base Kitsap-Bremerton, Bremerton, WA – LEED version 2 Certified http://www.eere.energy.gov/femp/highperformance/overview.cfm?ProjectID=498**

- **Personnel Support Facility (FY03 P-137), Naval Amphibious Base, Norfolk, VA – LEED version 2 Silver -- *Case study for High Performance Federal Buildings Database completed and submitted to FEMP.***

# NAVFAC USGBC LEED™ Certified Buildings

- **Airborne Mine Countermeasures Facility (FY04 P-526), Naval Station, Norfolk, VA – LEED version 2 Certified --**

# NASA Leed™ Certified Buildings

- **WSTF Health and Fitness Center**
- **JSC Astronaut's Crew Quarters at JSC**

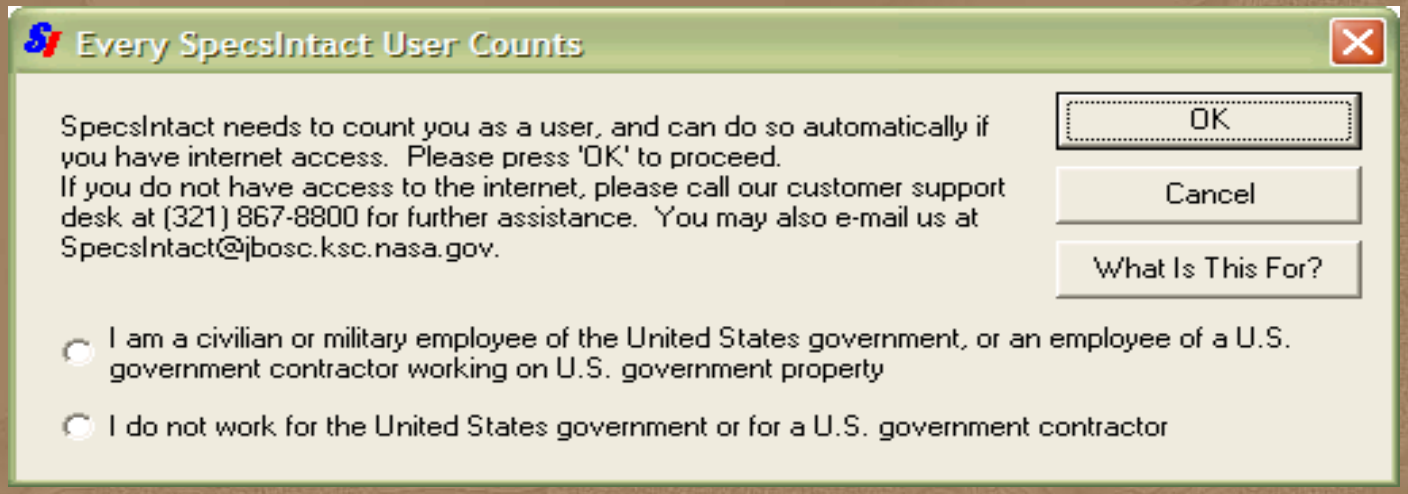
# UFGS (Continued)

- **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)**

# The Start of Counting New Installations

# SpecsIntact User Counts

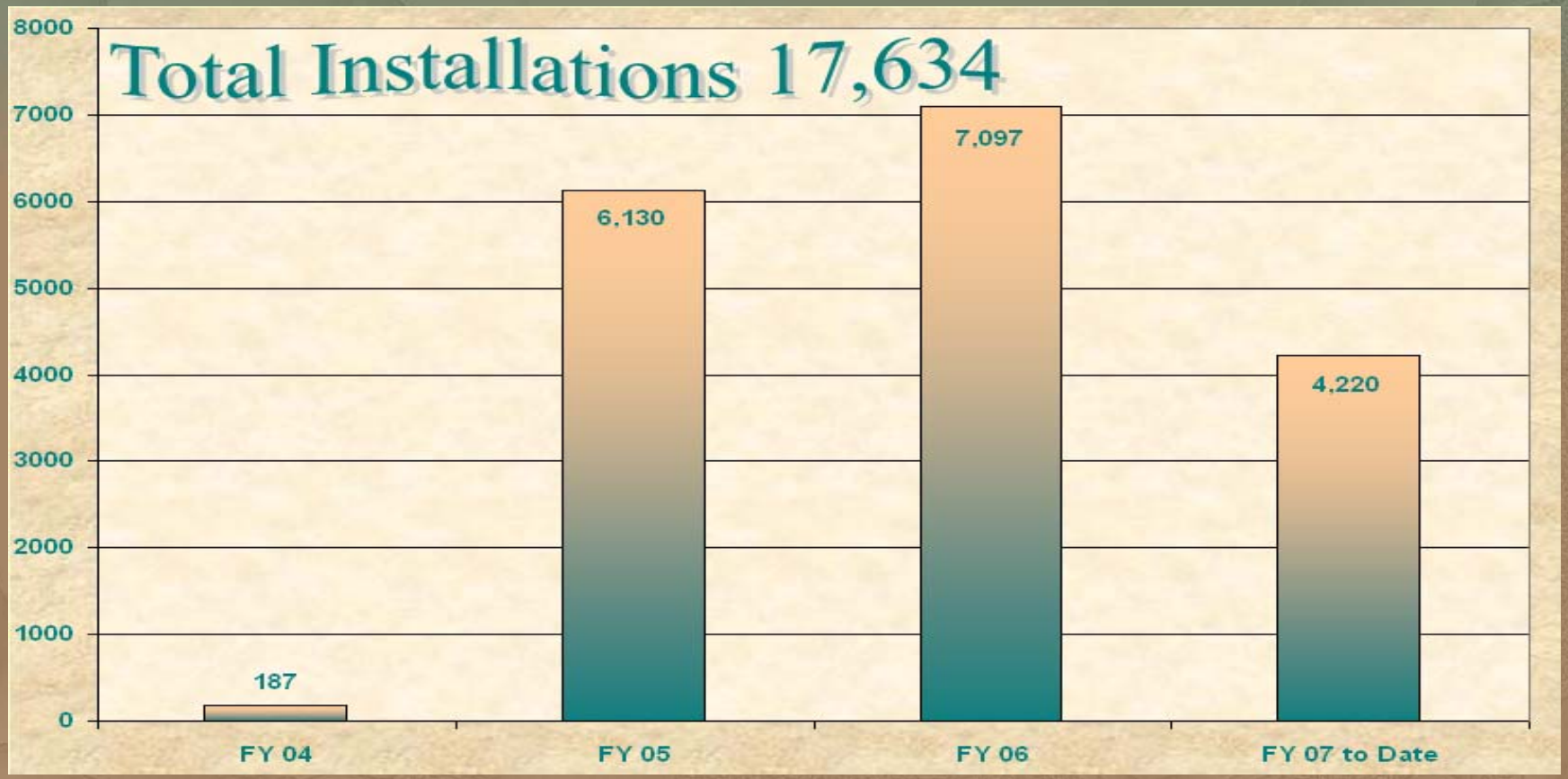
- Developed to obtain an actual count of SpecsIntact Users
  - Launched the first time with SpecsIntact September 2004 was installed



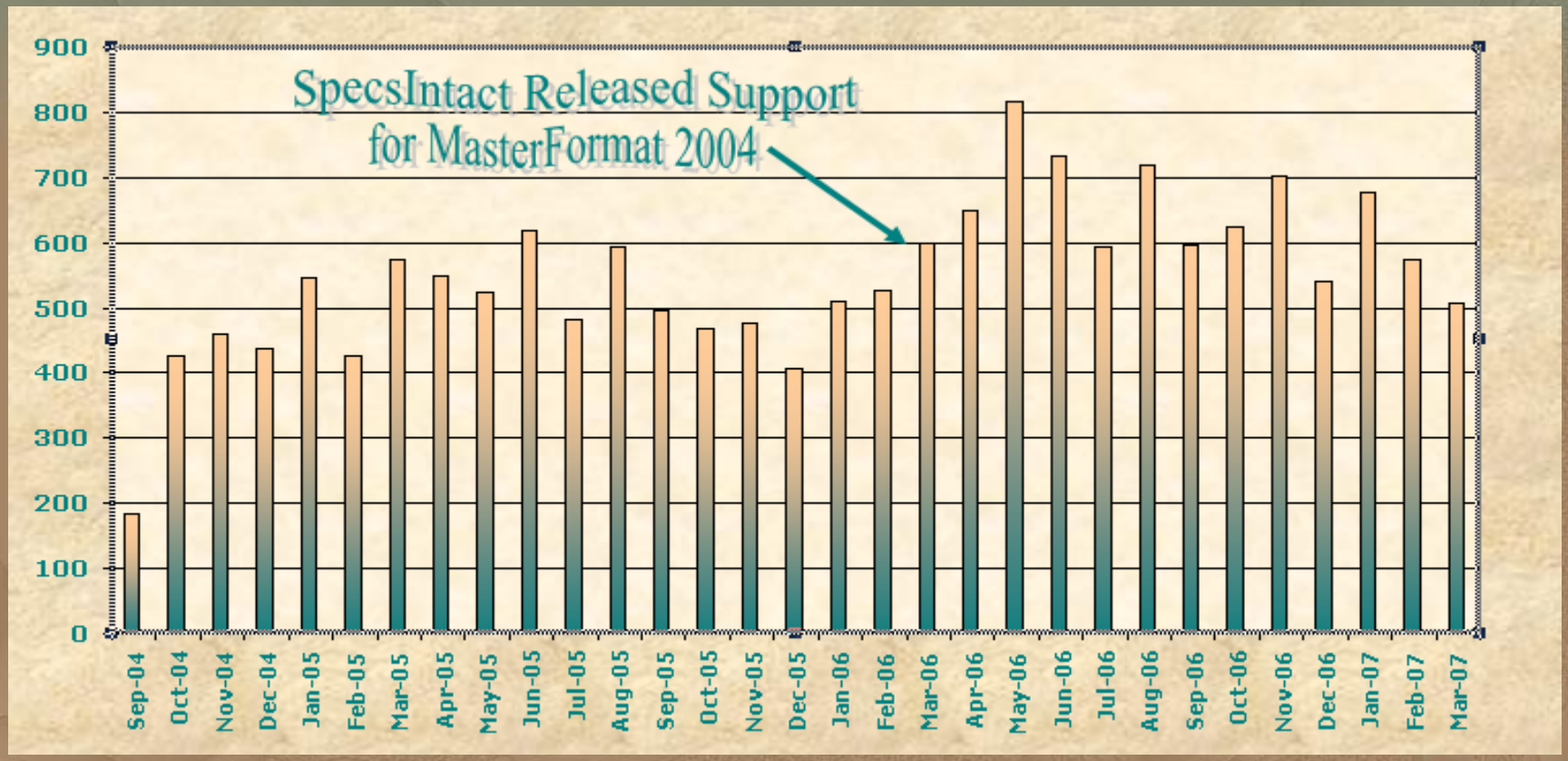
# New SpecsIntact Installations Since 2004

- **FY 04 – 187**
- **FY 05 – 6,130**
- **FY 06 – 7,097**
- **FY 07 to Present – 4,220**
- **Total Installations – 17, 634**

# New Installations Since FY04



# New Installations By Month



# SpecsIntact Features

# Overview

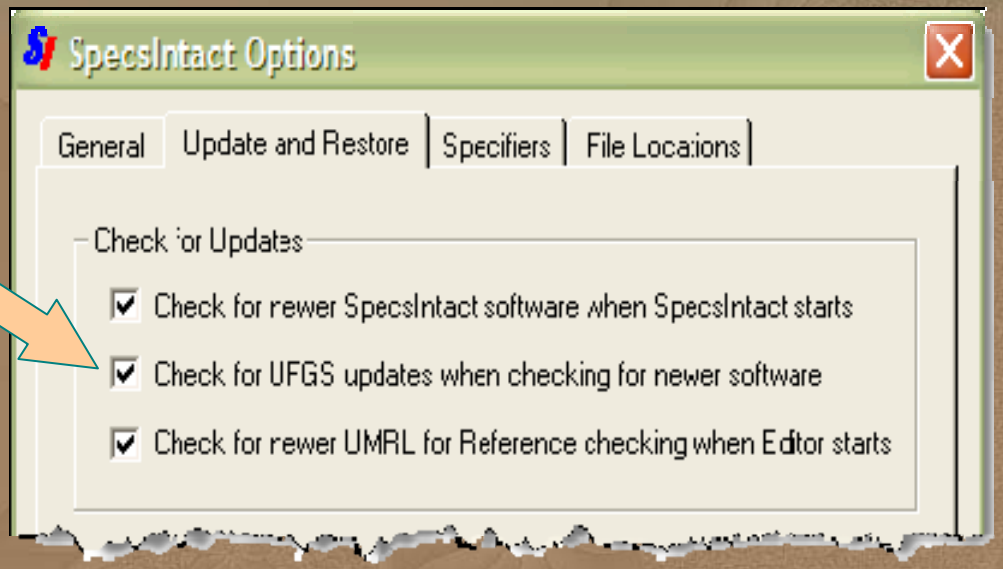
- Automatic Updates
- XML
- MasterFormat 2004
- Drag & Drop
- Global Search & Replace
- Global Settings for Units of Measure, Revisions and CSI MasterFormat Version

# Overview

- Publishing to PDF and Microsoft Word
- Help Menu
- Reference Wizard
- Future Enhancements ~ Coming Soon!

# Automatic Updates

- SpecsIntact Now Automatically Checks for:
  - Newer Software
  - Newer UFGS Master
  - Unified Master Reference List (UMRL)



# Extensive Markup Language (XML)

# XML View by Web Browser

Click Here to Close Options

| Units of Measure | Revisions | Notes | Section HyperLinks |
|---|---|---|---|
| English Units | Hide Redlined Text | Hide Notes | Use XML Extension |
| Metric Units | Display Redlined Text | Display Notes | Use SEC Extension |
| Both Units | | | Use JavaScript |

Hide

Section Table of Contents

SECTION 00 62 35

RECYCLED / RECOVERED MATERIALS

04/06


PART 1 GENERAL
- 1.1 REFERENCES
- 1.2 OBJECTIVES
- 1.3 EPA DESIGNATED ITEMS INCORPORATED IN THE WORK
- 1.4 EPA PROPOSED ITEMS INCORPORATED IN THE WORK
- 1.5 EPA LISTED ITEMS USED IN CONDUCT OF THE WORK BUT NOT INCORPORATED IN THE WORK

SECTION 00 62 35 - Microsoft Internet Explorer provided by JBOSC
File Edit View Favorites Tools Help
Back Search Favorites
Address http://si.ksc.nasa.gov/sidownloads/aspx/siDisplay.aspx?xml=http://si.ksc.nasa.gov/sidownloads/ufgs/sec/00%2062%2035.sec Go Links
Search Web Mail My Yahoo! HotJobs Music Answers Personals Sign In
mywebsearch Search Failed to retrieve buttons from MyWebSearch. Retry
Click Here to Close Options
Units of Measure: English Units / Metric Units / Both Units
Revisions: Hide Redlined Text / Display Redlined Text
Notes: Hide Notes / Display Notes
Section HyperLinks: Use XML Extension / Use SEC Extension / Use JavaScript
Hide

# SECTION 00 62 35

# RECYCLED / RECOVERED MATERIALS

04/06

## PART 1 GENERAL

### 1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

| | |
|---|---|
| 40 CFR 247 | Comprehensive Procurement Guideline for Products Containing Recovered Materials |

### 1.2 OBJECTIVES

Government procurement policy is to acquire, in a cost effective manner, items containing the highest percentage of recycled and recovered materials practicable consistent with maintaining a satisfactory level of competition without adversely affecting performance requirements or exposing suppliers' employees to undue hazards from the recovered materials. The Environmental Protection Agency (EPA) has designated certain items which must contain a specified percent range of recovered or recycled materials. EPA designated products specified in this contract comply with the stated policy and with the EPA guidelines. The Contractor shall make all reasonable efforts to use recycled and recovered materials in providing the EPA designated products and in otherwise utilizing recycled and recovered materials in the execution of the work.

### 1.3 EPA DESIGNATED ITEMS INCORPORATED IN THE WORK

Local intranet

# XML

- XML is now a mainstream technology
- Industry is rapidly adopting
- AG, IBM, Sun, Microsoft, Netscape, DataChannel, SAP and many others have already announced support for XML
- Will provide more flexibility and benefits
- Providing a Style Sheet allows the display of well formed documents in most browsers

# XML

- SpecsIntact became fully XML compliant in v4.2.0.785
- The new software works with both the new XML and older SGML formats simultaneously and transparently
- The new XML format will be incompatible with prior SpecsIntact software versions
- The XML Guide Specifications and software was released and distributed at the same time

# CSI MasterFormat™ 2004

- Software
  - Supports MasterFormat 2004
  - Supports both MasterFormat 1995 and MasterFormat 2004
  - File name increased from 6 alpha/numeric characters up to 14 numeric characters
  - 00 00 00.00 00
  - First three levels are mandatory
  - Last two levels are optional
  - Will use the fifth level to indicate the agency
  - Supports the new Division Numbers

# CSI MasterFormat™ 2004

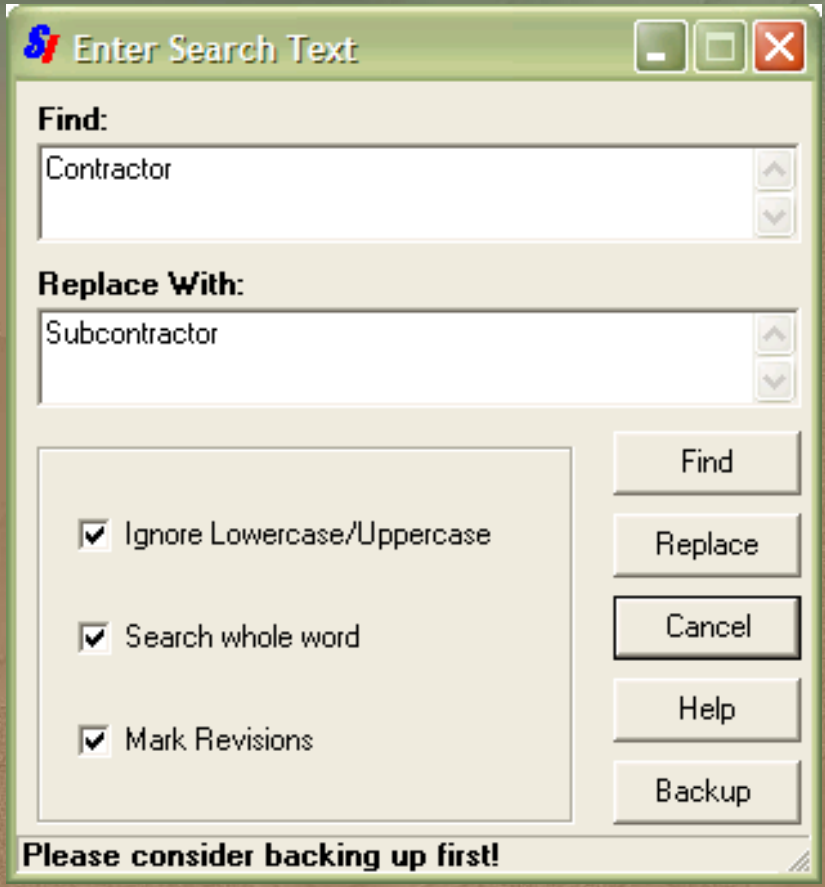
- Guide Specifications
  - Were converted and available by the April 2006 release
  - Guide Specifications and software were released and distributed at the same time
  - Will be maintained in MasterFormat 2004 only
  - Will not disassemble the Submittal Procedures Section (currently 01330 – MF 01 33 00)
  - Will not disassemble the Sources for Reference Publications (currently 01420 – MF 01 42 00)

# SI Explorer's Drag & Drop

- SI Explorer now provides the capability to drag & drop sections from Windows Explorer to the SI Explorer.

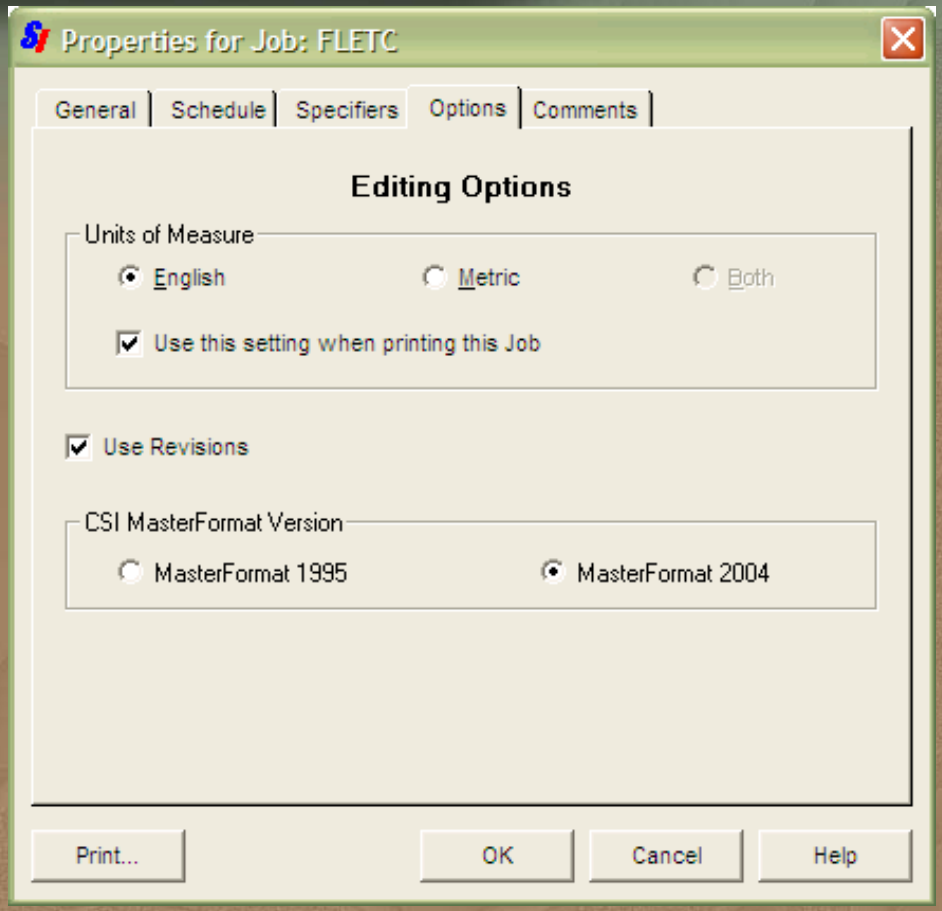
# Global Search & Replace

- Provides capability to Search / Replace text for an entire Project or Master.



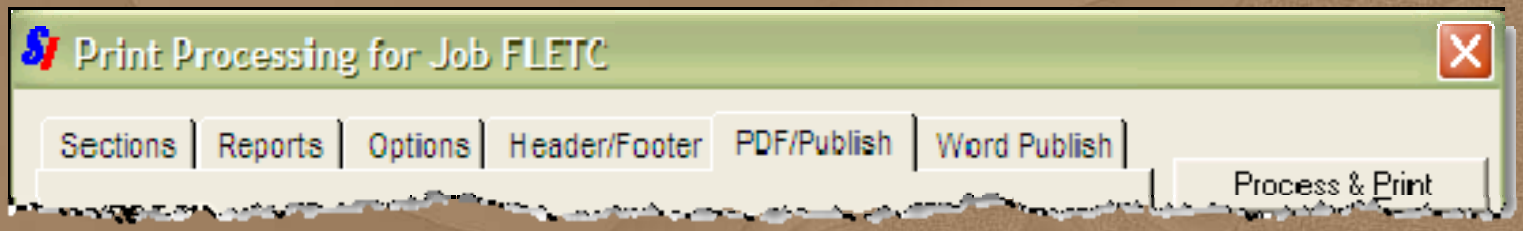
# Global Settings

- Allows you to store specific settings with a Job
- Units of Measure Options
  - Controls the SI Editors view options as well as the Process/Print options
- Revisions Option
  - Sets the SI Editor to automatically use and view Revisions
- CSI MasterFormat Version
  - Is defaulted to the MasterFormat Version of the Primary Master



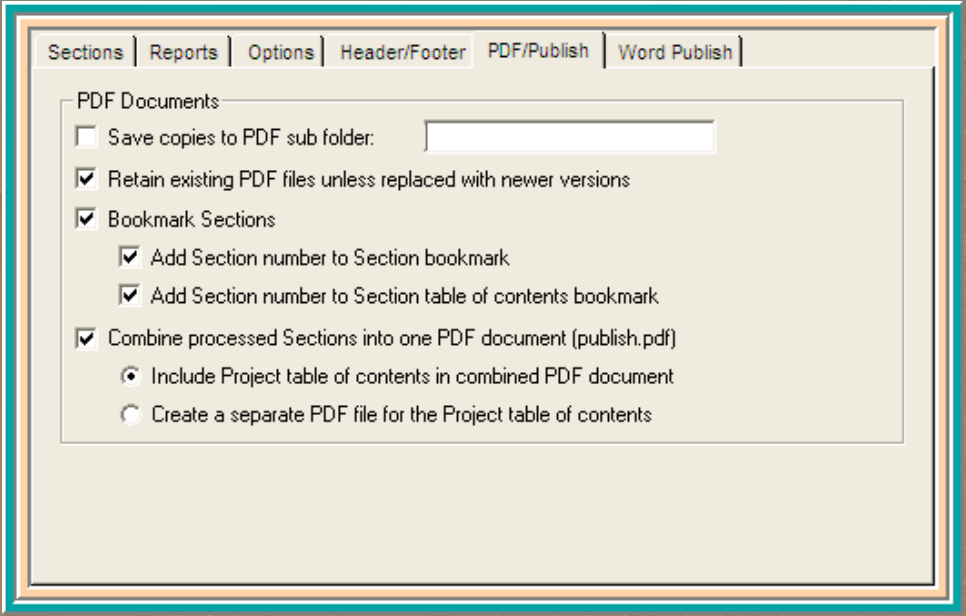
# Publishing to PDF and Word

- **Built in Feature to Publish the Guide Specifications to PDF or Word**
  - **Must first select the Project Table of Contents and/or Section Table of Contents**



# Publishing to PDF and Word

- **Publishing to PDF**
  - **Features:**
    - **Bookmark Sections**
    - **Bookmark Section Table of Contents**
    - **Ability to Combine Job into one PDF document**



# SI Editor's Reference Wizard

# Reference Wizard

**Select one of the tags to launch the Reference Wizard**

You get Everything!

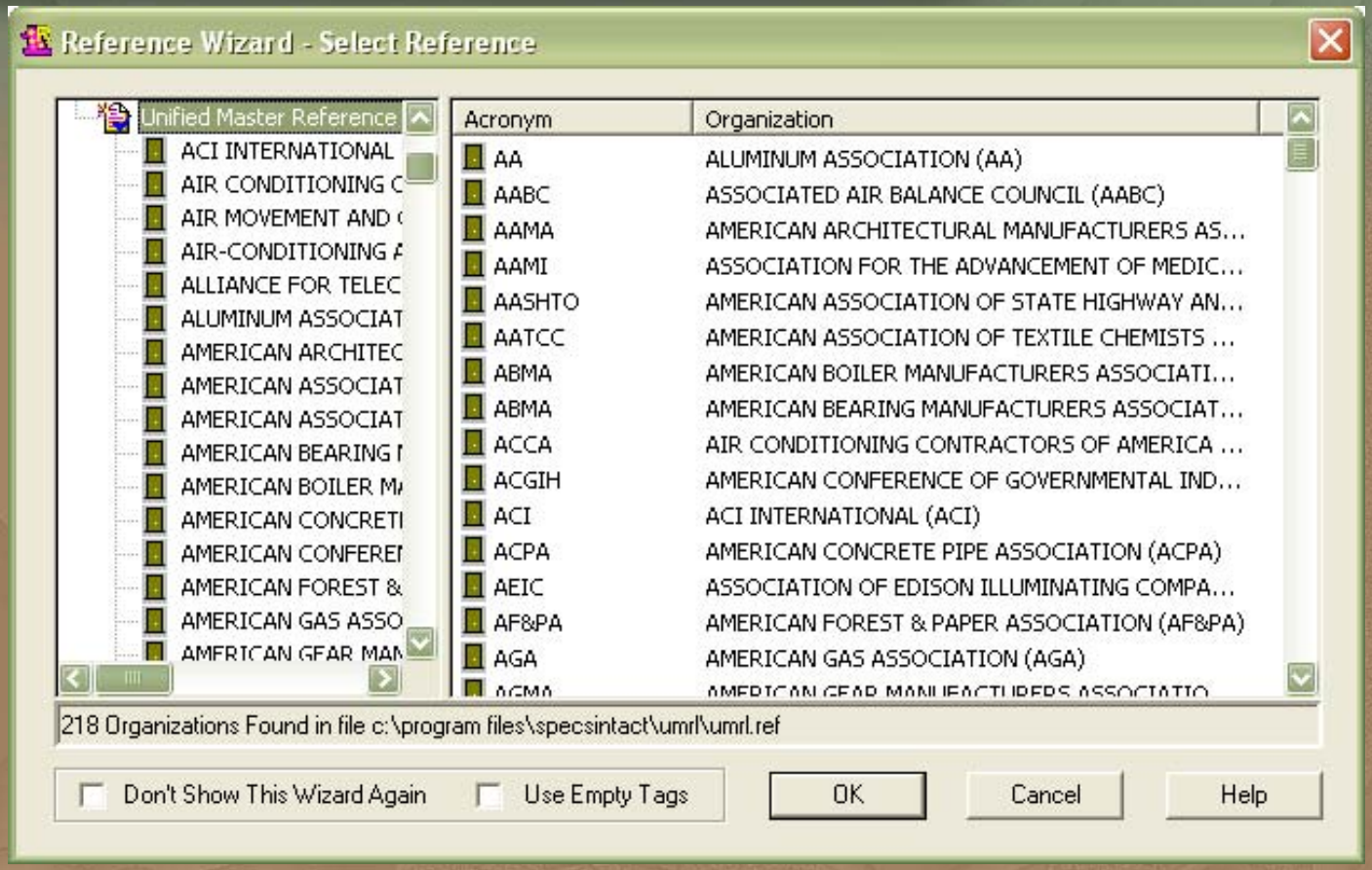
REF RID RTL ORG

AMERICAN SOCIETY OF SANITARY ENGINEERING (ASSE)

| | |
|---|---|
| ASSE 1009 | (1990) Commercial Food Waste Grinder Units |
| ASSE 1018 | (2001) Trap Seal Primer Valves, Water Supply Fed |
| ASSE 5000 | (1998) Professional Qualification Standard for Backflow Prevention Assembly Testers, Repairers and Surveyors |

# Reference Wizard

HOT



# The Future Is Begins...

# NOW!!

# Existing SI Tables

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·····<SUB>Pigmented·Sealer</SUB>·····6-2·····B28W200·····5111¶
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·····<SUB>Latex·Block·Filler</SUB>·····6-7·····B25W25·····5317¶
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·····<SUB>Exterior·Wood·Primer</SUB>·····6-809·····Y24W20·····3651¶
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·····Water·base·<SUB>Acrylic·Epoxy</SUB>·····16·line·····B70·SERIES·····5277/5278¶
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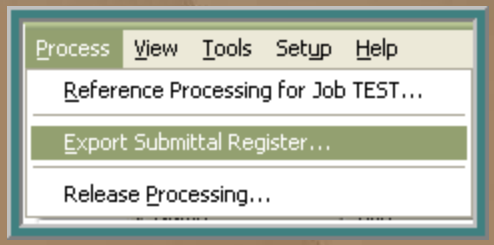
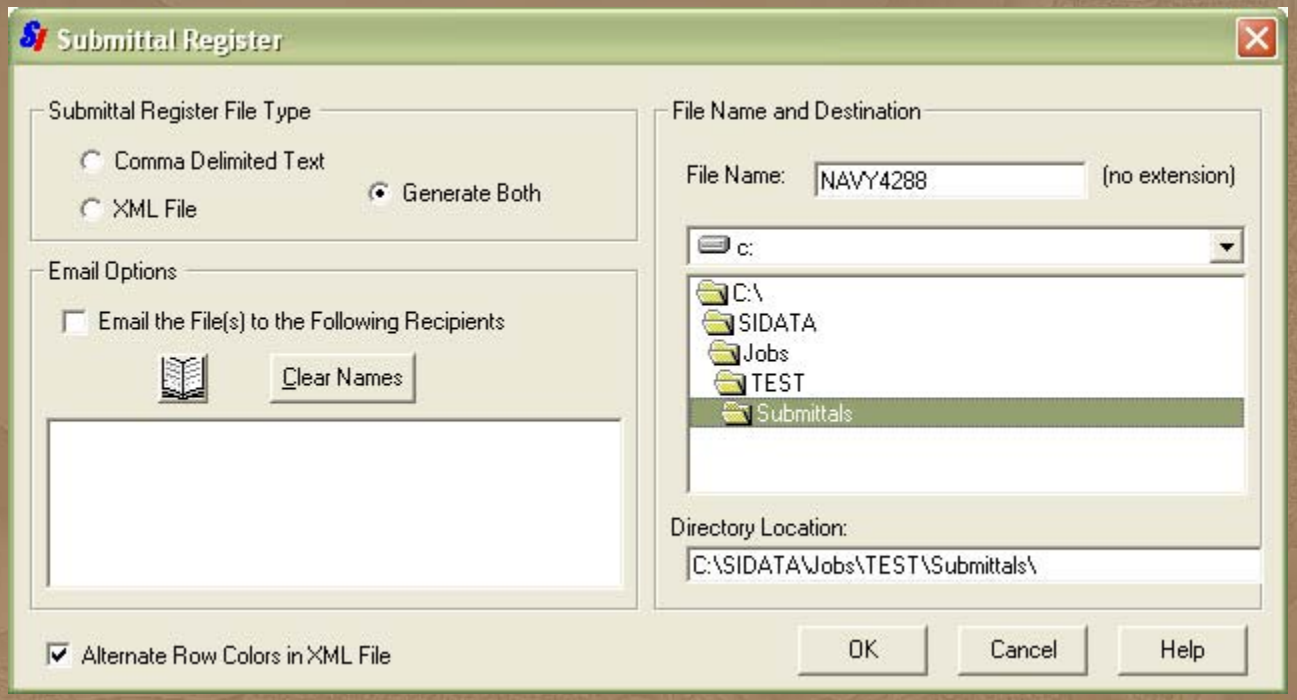
# New SI Tables

Wow!!

| COATING | PITTSBURGH | SHERWIN WILLIAMS | GLIDDEN |
|---|---|---|---|
| Inhibitive Metal Primer | 6-712 | B50WZ1 | 6970 |
| Pigmented Sealer | 6-2 | B28W200 | 5111 |
| Latex Block Filler | 6-7 | B25W25 | 5317 |
| Alkali Resistant Primer | 6-3 | A5V2 | 5212H |
| Enamel Undercoat | 6-755 | B49W2 | [300] [310] |
| Exterior Wood Primer | 6-809 | Y24W20 | 3651 |
| Acrylic latex, flat | 72 line | A6 SERIES | 6500 |
| Acrylic Latex, gloss | 78 line | A8 SERIES | 6600 |
| Water base Acrylic Epoxy | 16 line | B70 SERIES | 5277/5278 |

# Export Submittal Register



# Export Submittal Register

Microsoft Excel - navy4288.htm

| | Section Number | Activity Number | Transmittal Number | UNUSED | Subpart Number | Submittal Item | SD Number | Submitta Classificati |
|---|---|---|---|---|---|---|---|---|
| 2 | 01 11 00 | | | | 1.5.1.3 | Energy Performance Rating | 7 | |
| 3 | 01 14 00 | | | | 1.11.1 | Visit Request for Pearl harbor Naval Shipyard Form (PHNSY 14ND-SYD-5512/28) | 1 | |
| 4 | 01 14 00 | | | | 1.11.1 | Completed Special Access Determination (NAVSEA 5510/15) | 1 | |
| 5 | 01 14 00 | | | | 1.11.3 | Pier parking authorization | 1 | |
| 6 | 01 14 00 | | | | 1.11.7 | Government guard services | 1 | |
| 7 | 01 14 00 | | | | 1.9.1 | Meal Signature Record Book (MSRB) | 1 | |
| 8 | 01 14 00 | | | | 1.9.2 | Dining and lodging requirements | 1 | |
| 9 | 01 14 00 | | | | 1.9.3 | Housing plan | 1 | |
| 10 | 01 14 00 | | | | 1.9.4 | Medical plan | 1 | |
| 11 | 01 14 00 | | | | 1.6 | Contractor regulations | 1 | |
| 12 | 01 14 00 | | | | 1.1 | Transportation of personnel, materials, and equipment | 1 | |
| 13 | 01 14 00 | | | | 1.10.2 | Purchase orders | 1 | |
| 14 | 01 14 00 | | | | 1.4.1.1 | List of Contact Personnel | 1 | |
| 15 | 01 14 00 | | | | 1.5.20.1 | Personnel List | 1 | |
| 16 | 01 14 00 | | | | 1.5.22 | Personnel List | 1 | |
| 17 | 01 14 00 | | | | 1.5.23 | Vehicle List | 1 | |
| 18 | 01 14 00 | | | | 1.5.24 | Statement of Acknowledgement Form SF 1413 | 1 | |
| 19 | 01 20 00.00 20 | | | | 1.3 | Schedule of prices | 1 | |
| 20 | 01 20 01.00 10 | | | | 3.1 | Report Outline | 6 | |
| 21 | 01 33 00 | | | | 1.3.1 | Submittal register | 1 | |
| 22 | 05 05 23.00 14 | | | | 1.5 | Welding Procedure Qualifications | 3 | |
| 23 | 05 05 23.00 14 | | | | 1.6 | Welder, Welding Operator, and Tacker Qualification | 3 | |
| 24 | 05 05 23.00 14 | | | | 1.7 | Inspector Qualification | 3 | |
| 25 | 05 05 23.00 14 | | | | 1.5.2 | Previous Qualifications | 3 | |
| 26 | 05 05 23.00 14 | | | | 1.5.3 | Pre-qualified Procedures | 3 | |
| 27 | 05 05 23.00 14 | | | | 3.2 | Quality Control | 6 | |
| 28 | 05 05 23.00 14 | | | | 3.3.1 | Nondestructive Examination | 6 | |
| 29 | 05 05 23.00 14 | | | | 1.5.1 | Certified Welding Procedure Specifications (WPS) | 7 | |

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# Proposed Alternate Paragraph Numbering



SECTION 08 44 13

GLAZED ALUMINUM CURTAIN WALL

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Aluminum-framed curtain wall, with vision glazing and glass, metal, and stone infill panels.

B. Associated louvers.

1.02 RELATED SECTIONS

A. Section 03 30 00 - Cast-In-Place Concrete: Weld plates embedded in concrete for attachment of anchors.

B. Section 05 12 00 - Structural Steel Framing: Steel attachment members.

1.03 REFERENCES

A. AA DAF-45 - Designation System for Aluminum Finishes; The Aluminum Association, Inc.

B. AAMA CW-10 - Care and Handling of Architectural Aluminum From Shop to Site; American Architectural Manufacturers Association

PART 2 PRODUCTS

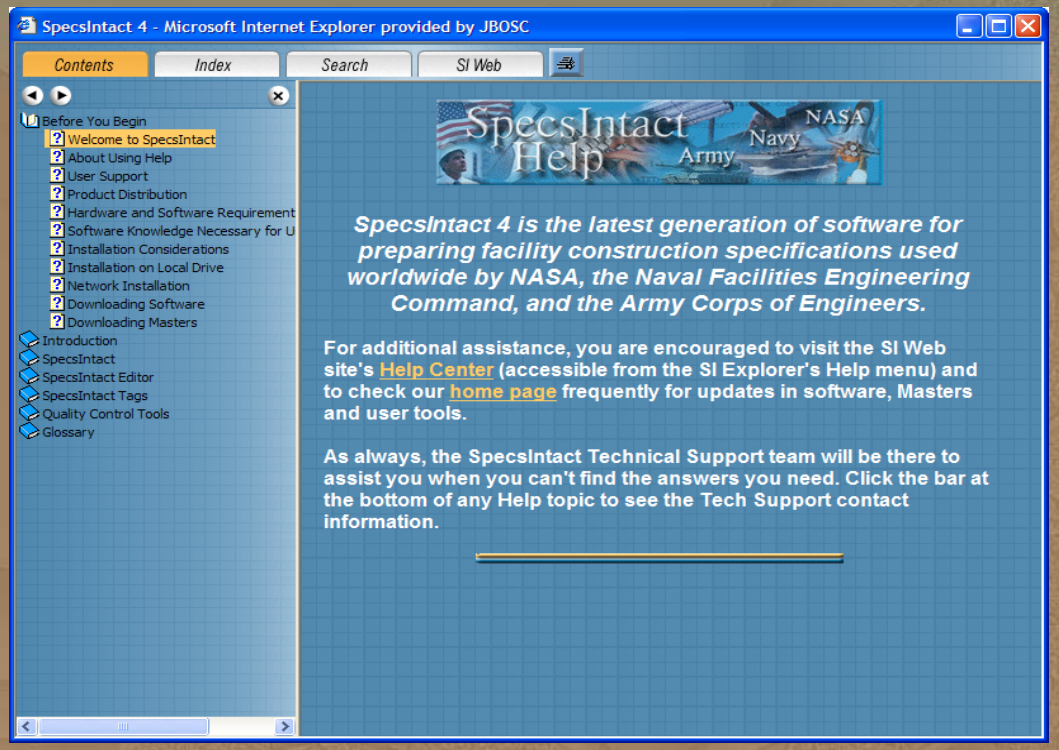
2.01 MANUFACTURERS

A. The design is based on ABC Manufacturing Company's XYZ Series curtain wall.

B. Other Acceptable Manufacturers:
1. _____.
2. _____.
3. Substitutions Procedures: See Section 01 25 00

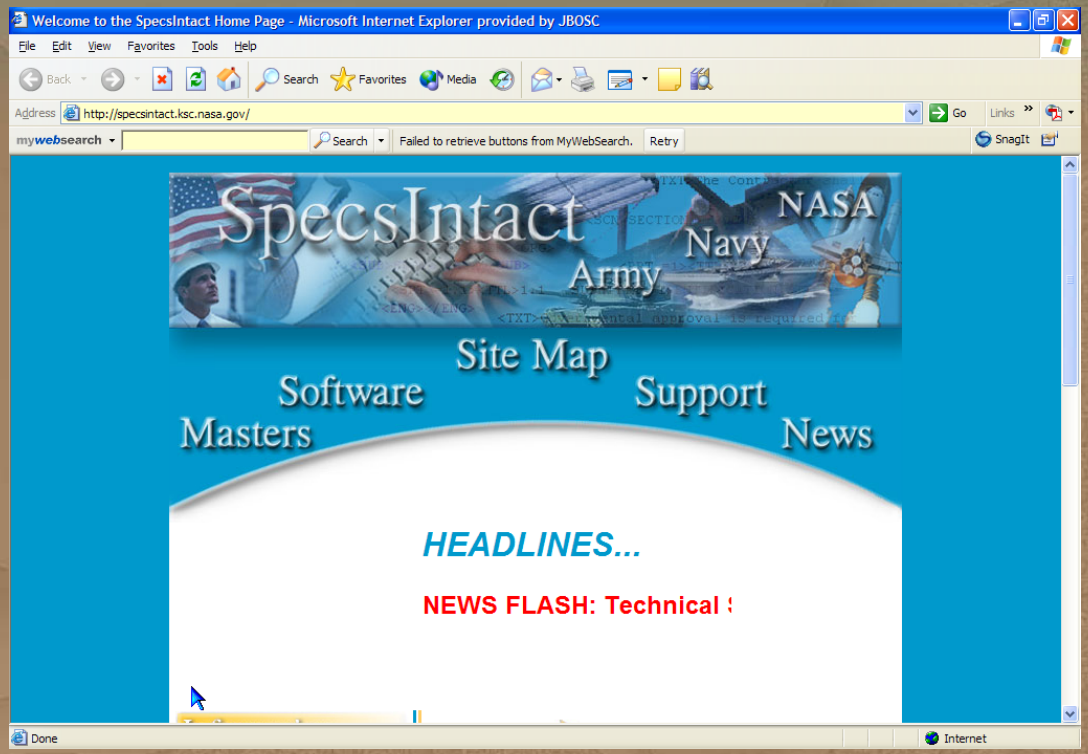
# Improved Help Menu

- **Provides the following Options**
  - **Web Help**



# Improved Help Menu

- **Provides the following Options**
  - **Web Site**



# Improved Help Menu

- **Provides the following Options**
  - **Web Help Center**

Featuring
Sally Spector

# Help Menu

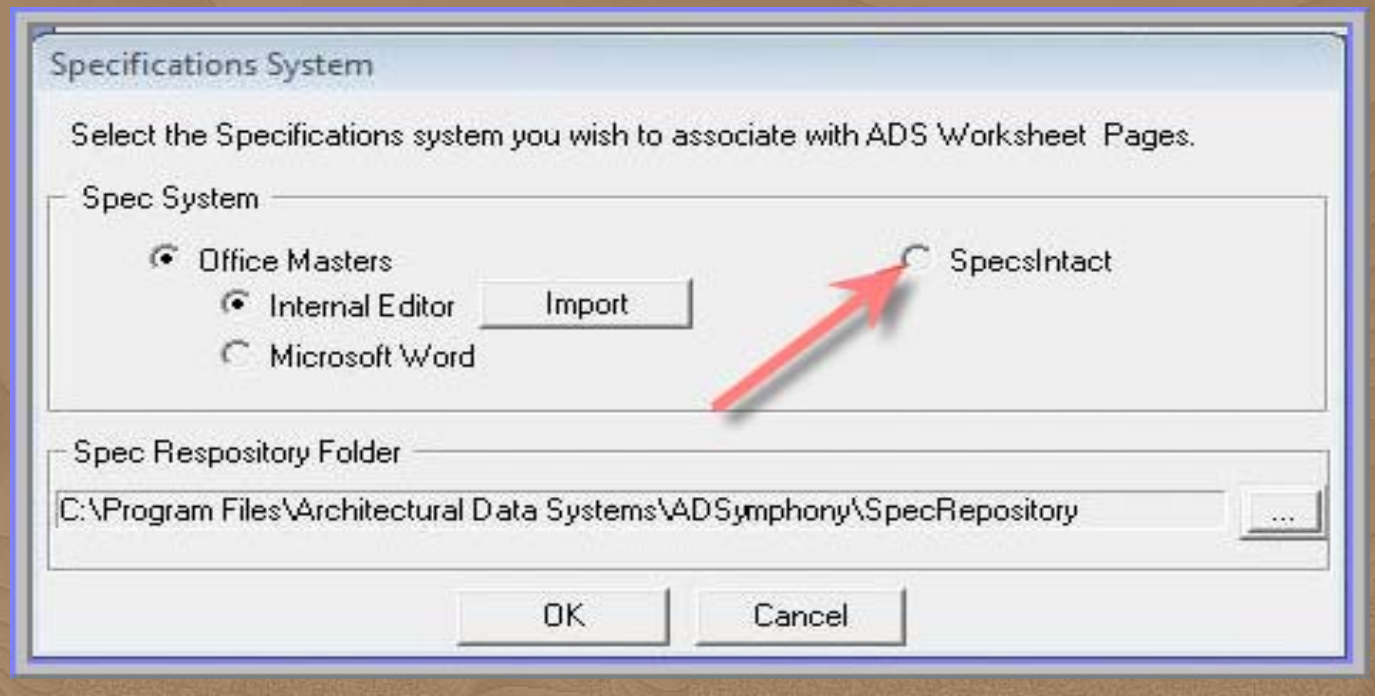
- **Provides the following Options**
  - **Quick Tours**

*also Featuring*

# Future Integration

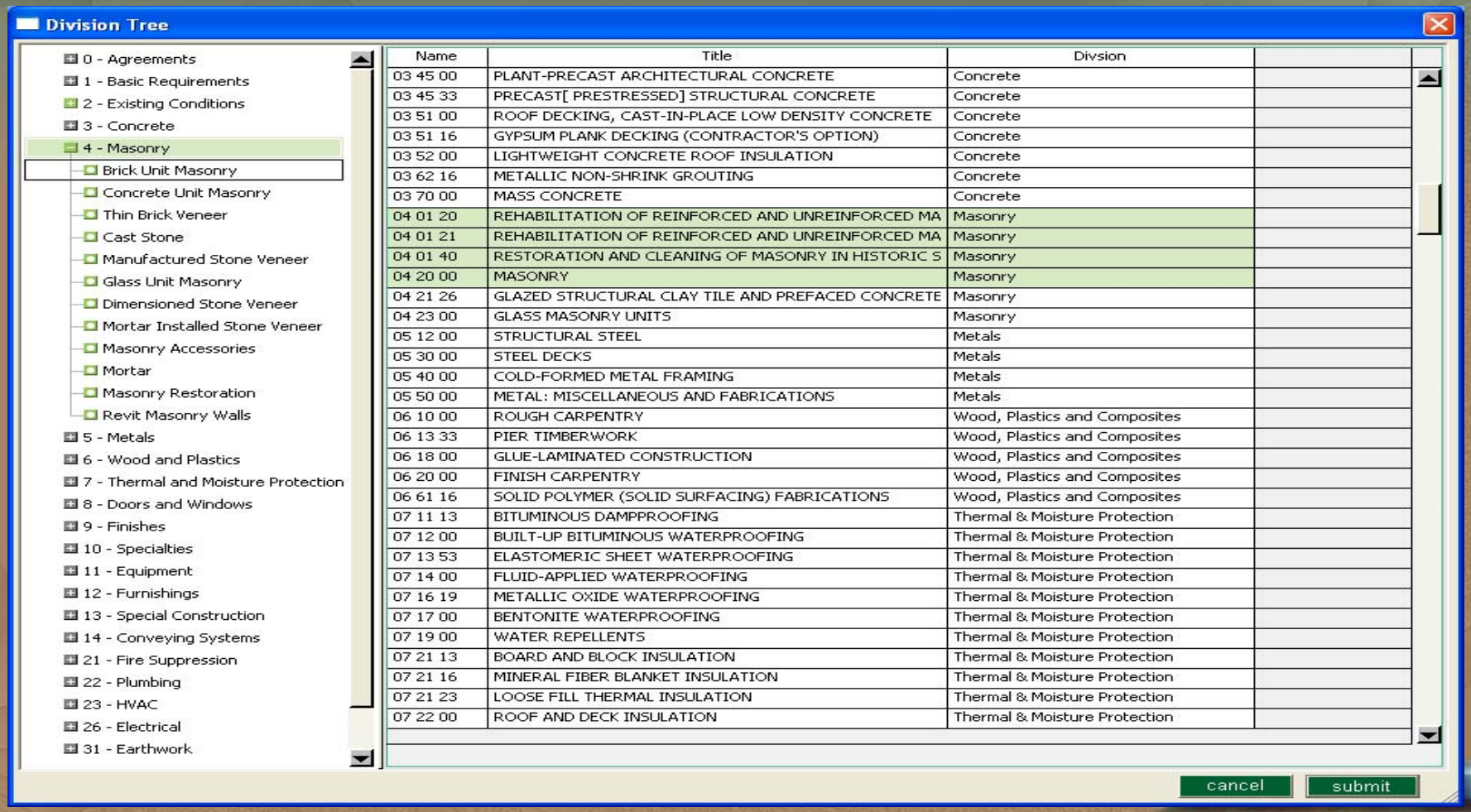
## Architectural Data Systems (ADS)

# Architectural Data Systems (ADS)



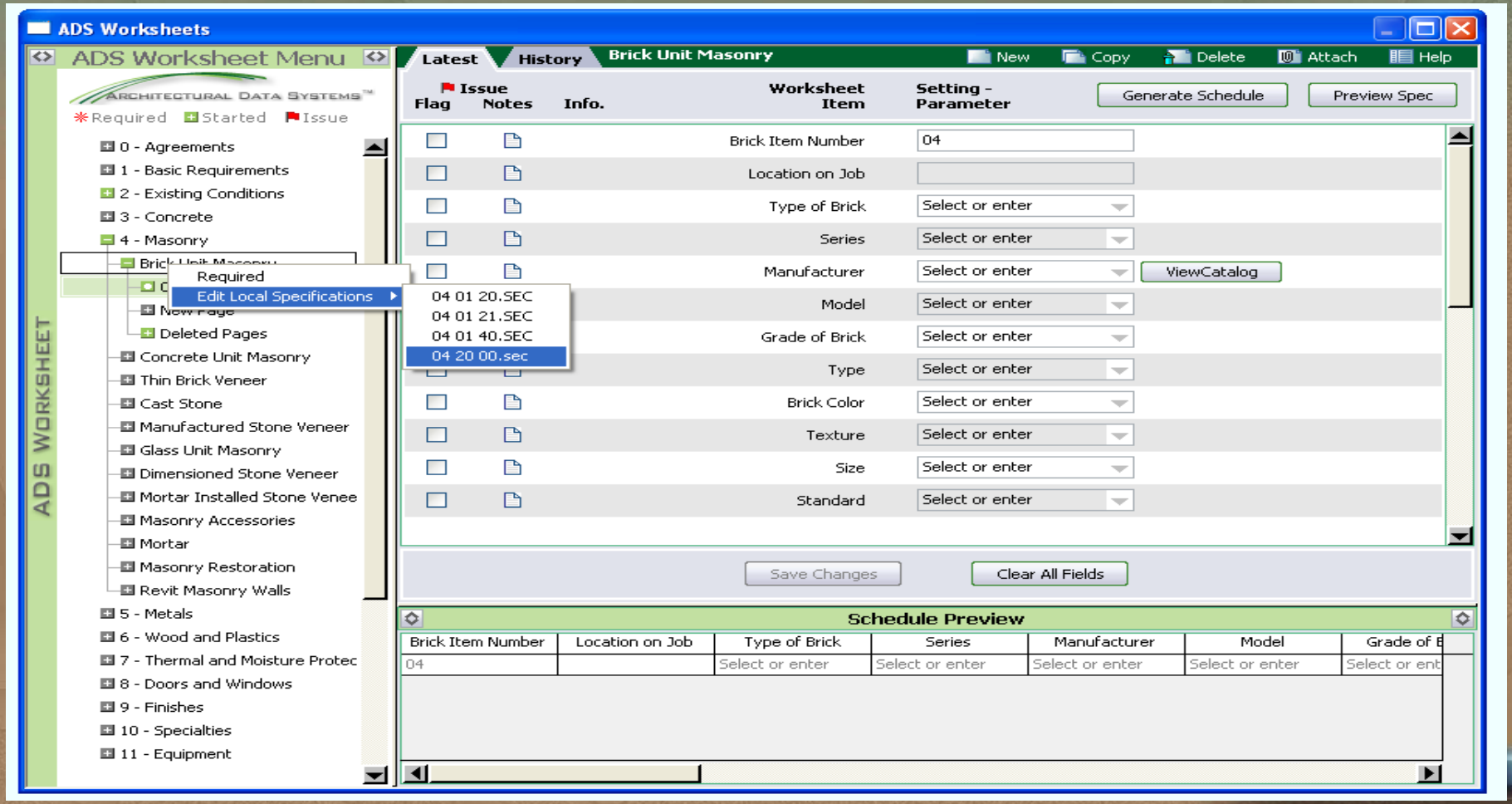
# Architectural Data Systems (ADS)

# Architectural Data Systems (ADS)




| Name | Title | Divsion |
|---|---|---|
| 03 45 00 | PLANT-PRECAST ARCHITECTURAL CONCRETE | Concrete |
| 03 45 33 | PRECAST[ PRESTRESSED] STRUCTURAL CONCRETE | Concrete |
| 03 51 00 | ROOF DECKING, CAST-IN-PLACE LOW DENSITY CONCRETE | Concrete |
| 03 51 16 | GYPSUM PLANK DECKING (CONTRACTOR'S OPTION) | Concrete |
| 03 52 00 | LIGHTWEIGHT CONCRETE ROOF INSULATION | Concrete |
| 03 62 16 | METALLIC NON-SHRINK GROUTING | Concrete |
| 03 70 00 | MASS CONCRETE | Concrete |
| 04 01 20 | REHABILITATION OF REINFORCED AND UNREINFORCED MA | Masonry |
| 04 01 21 | REHABILITATION OF REINFORCED AND UNREINFORCED MA | Masonry |
| 04 01 40 | RESTORATION AND CLEANING OF MASONRY IN HISTORIC S | Masonry |
| 04 20 00 | MASONRY | Masonry |
| 04 21 26 | GLAZED STRUCTURAL CLAY TILE AND PREFACED CONCRETE | Masonry |
| 04 23 00 | GLASS MASONRY UNITS | Masonry |
| 05 12 00 | STRUCTURAL STEEL | Metals |
| 05 30 00 | STEEL DECKS | Metals |
| 05 40 00 | COLD-FORMED METAL FRAMING | Metals |
| 05 50 00 | METAL: MISCELLANEOUS AND FABRICATIONS | Metals |
| 06 10 00 | ROUGH CARPENTRY | Wood, Plastics and Composites |
| 06 13 33 | PIER TIMBERWORK | Wood, Plastics and Composites |
| 06 18 00 | GLUE-LAMINATED CONSTRUCTION | Wood, Plastics and Composites |
| 06 20 00 | FINISH CARPENTRY | Wood, Plastics and Composites |
| 06 61 16 | SOLID POLYMER (SOLID SURFACING) FABRICATIONS | Wood, Plastics and Composites |
| 07 11 13 | BITUMINOUS DAMPPROOFING | Thermal & Moisture Protection |
| 07 12 00 | BUILT-UP BITUMINOUS WATERPROOFING | Thermal & Moisture Protection |
| 07 13 53 | ELASTOMERIC SHEET WATERPROOFING | Thermal & Moisture Protection |
| 07 14 00 | FLUID-APPLIED WATERPROOFING | Thermal & Moisture Protection |
| 07 16 19 | METALLIC OXIDE WATERPROOFING | Thermal & Moisture Protection |
| 07 17 00 | BENTONITE WATERPROOFING | Thermal & Moisture Protection |
| 07 19 00 | WATER REPELLENTS | Thermal & Moisture Protection |
| 07 21 13 | BOARD AND BLOCK INSULATION | Thermal & Moisture Protection |
| 07 21 16 | MINERAL FIBER BLANKET INSULATION | Thermal & Moisture Protection |
| 07 21 23 | LOOSE FILL THERMAL INSULATION | Thermal & Moisture Protection |
| 07 22 00 | ROOF AND DECK INSULATION | Thermal & Moisture Protection |

# Architectural Data Systems (ADS)



# Architectural Data Systems (ADS)

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                                SECTION 04 20 00

                                     MASONRY
                                      10/06

PART 1    GENERAL

1.1    REFERENCES

  The publications listed below form a part of this specification to the
  extent referenced.  The publications are referred to within the text by the
  basic designation only.

           ACI INTERNATIONAL (ACI)

  ACI 318/318R                      (2005) Building Code Requirements for
                                    Structural Concrete and Commentary

  ACI 318M                          (2005) Metric Building Code Requirements
                                    for Structural Concrete and Commentary

  ACI 530                           (2005) Building Code Requirements for
                                    Masonry Structures Commentaries

  ACI 530.1                         (2005) Specification for Masonry Structures

  ACI SP-66                         (2004) ACI Detailing Manual

           ASTM INTERNATIONAL (ASTM)

  ASTM A 153/A 153M                 (2005) Zinc Coating (Hot-Dip) on Iron and
```

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Questions?

Thank You!!