

Chinook Systems Inc.

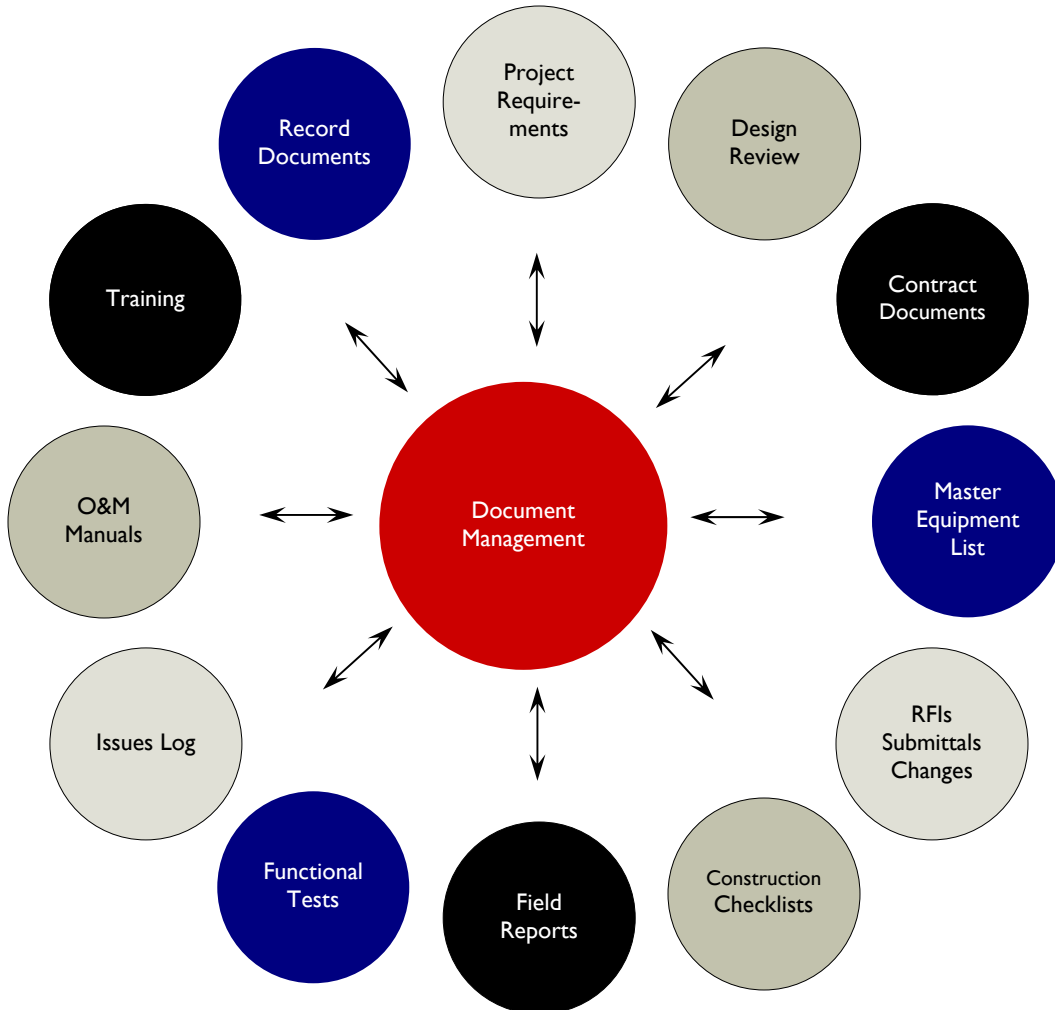
www.QuiCx.net

Product Features



Project Delivery System

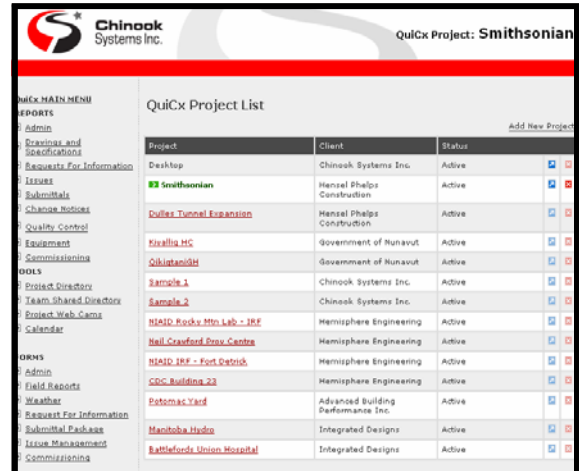
The QuiCx Project Life Cycle



The QuiCx Project Delivery System

The process of proper record keeping, document management and pre-planning for future operations is the heart of the unique project delivery software offered by Chinook Systems Inc. The QuiCx Project Delivery System (short for Quality In Commissioning) manages the commissioning process, project administration, quality assurance, and record documents, and provides for efficient methods of handling the mountain of paper that accompanies almost any project today.

Both private industry and government are continually evolving in an attempt to achieve efficiencies in project delivery. Chinook Systems Inc. offers the QuiCx Project Delivery System to meet this industry need. Our comprehensive web-based tool enables our Clients to effectively manage their project requirements.



The screenshot displays the 'QuiCx Project List' interface. The top left corner features the Chinook Systems Inc. logo. The top right corner indicates the current project is 'Smithsonian'. The main content area is a table with columns for Project, Client, and Status. The table lists various projects, including 'Desktop', 'Smithsonian', 'Dulles Tunnel Expansion', 'Knoxville HC', 'Oklahoma OH', 'Sample 1', 'Sample 2', 'NIAID Rocky Mtn Lab - JEF', 'Neil Crawford Proj Centre', 'NIAID JEF - Fort Detrick', 'CDC Building 23', 'Potomac Yard', 'Manitoba Hydro', and 'Bathurst Union Hospital'. Each row includes a status indicator (Active) and a small icon for further actions.

Project	Client	Status
Desktop	Chinook Systems Inc.	Active
Smithsonian	Hensel Phelps Construction	Active
Dulles Tunnel Expansion	Hensel Phelps Construction	Active
Knoxville HC	Government of Nunavut	Active
Oklahoma OH	Government of Nunavut	Active
Sample 1	Chinook Systems Inc.	Active
Sample 2	Chinook Systems Inc.	Active
NIAID Rocky Mtn Lab - JEF	Hemisphere Engineering	Active
Neil Crawford Proj Centre	Hemisphere Engineering	Active
NIAID JEF - Fort Detrick	Hemisphere Engineering	Active
CDC Building 23	Hemisphere Engineering	Active
Potomac Yard	Advanced Building Performance Inc.	Active
Manitoba Hydro	Integrated Designs	Active
Bathurst Union Hospital	Integrated Designs	Active

The QuiCx Project Delivery System has been designed from an Owner requirements perspective. It manages and tracks the transition of data from design through construction and closeout, into operations and maintenance. QuiCx is a tool that is easy to use, and follows the logical way of conducting business. It was designed with the philosophy of accomplishing a task in “3 clicks or less”.

The system is collaborative and customizable to meet project specific requirements and special needs of our clients. Chinook offers deployment of the QuiCx Project Delivery System in both an internet hosted environment and a client server environment.


Overall benefits of QuiCx include:

- Web-based, Collaborative, and Secure Data Management
- Provides Centralized Management of Multiple Projects
- Ensures Use of Standards and Protocol between Projects
- Includes Master Templates for Construction Checklists
- Provides Automated Tracking of Commissioning activities
- Built by an Experienced Commissioning Solution Provider
- Focuses on Project Deliverables and the Owners Needs

QuiCx consists of six key modules that enable companies to successfully manage the project delivery life cycle.

Commissioning

The commissioning module provides comprehensive functionality to fully manage the entire commissioning process from design through to operations and maintenance. The system has been designed to manage the commissioning process in accordance to ASHRAE guidelines.


Chinook Systems, Inc.		PRE-FUNCTIONAL CHECKLIST			
 Smithsonian Institution Patent Office Building Washington, DC 20004		Tag No.	AHU-41		
		Description	Air Handling Unit - Stacked		
		Section	15854		
		Discipline	Mechanical		
		System	Air Systems Serving West Wing		
Equipment Data:		Location Data:			
Manufacturer	York International Corp.	Building	Patent Office Building		
Type	Air Handling Unit	Floor	B		
Model No.	SOLUTION-XTI-45X66	Room	W010		
Serial No.		Service	1st. Fl. West Wing South Half Inside		
Supplier	York International Corp.	Parent Equip			
Nameplate Data		Specified	Submitted	Installed	Verified
Fan Data					
Supply fan - Capacity	---		11160.8 m ³ /hr		<input type="checkbox"/>
Supply fan motor - V / A / Ph	---		460V / 14.0A	460V/12.9A/3PH	<input checked="" type="checkbox"/>
Supply fan motor- RPM	---		1800	2219 RPM	<input checked="" type="checkbox"/>
Supply fan motor - kW	---		10	10HP	<input checked="" type="checkbox"/>



Features	Benefits
Master Equipment List	Manage and status equipment installation, startup and testing by system, equipment type, and location Export the as-installed master equipment list for easy import into a Computerized Maintenance Management System (CMMS)
Construction Checklists	Validation the equipment is installed and started in accordance with contract documents and manufacturers' recommendations On-line generation and completion of construction checklists increases efficiency and reduces resource requirements Track installation and startup status by equipment
Functional Performance Tests	Ensures systems and equipment function in accordance to design intent Documents system performance Manage and track functional test development and testing acceptance status
Issue Management	Manages and tracks commissioning issues including those specific to functional testing Facilitates conflict resolution during all phases of the project Provides timely distribution of issues and resolutions through email notification Automatically produces action lists for responsible companies based on issue type and status
Field Reports	Facilitates documented observation and review of the progression of work

Contract Documents

Contract document management allows for seamless tracking and management of documents including design intent documents, drawings, specifications, and sketches throughout the project life cycle.


Chinook Systems, Inc.				Document Review			
 Smithsonian Institution Patent Office Building Washington, DC 20004							
Document	Rev	Permit Resubmission	Status	Active	Date	22-Feb-05	
Comments							
Reviewer Name	Comment Date	Description				Disposition	
Marc Soots	28-Feb-05	Notes are incomplete				In Review	
Affected Contract Documents							
Drawing No	Title					Section / Detail	
M-1n	NORTH BUILDING MECHANICAL SYMBOLS, ABBREVIATIONS, AND NOTES					Notes	
M-1s	SOUTH BUILDING MECHANICAL SYMBOLS, ABBREVIATIONS, AND NOTES					Notes	



Features	Benefits
Design Review Comments	Facilitates error checking and the preparation of accurate contract documents that meet the design intent Provides for real-time comment disposition and status reporting of issues and resolutions Promotes open dialogue and coordination between responsible parties
Contract Drawings and Specifications	Provides 'One Stop Shopping' for latest revisions of all contract documents Easy access to contract documents through web-based reports with on-line viewing, downloading and printing capabilities Eliminates need for reproduction and distribution
Posting and Redline Management	Captures complete revision/change history of contract documents Facilitates as-built drawing preparation and review
Deliverable Management	Enables tracking and status reporting of project deliverables such as submittals, training materials, and O&M Manuals Identifies related codes and standards
Sketch Management	Tracks the release of sketch engineering and relates sketches to associated contract documents

Construction Management

The Construction Administration Module facilitates generating Requests For Information, Submittals, and Change documents. All can be related back to the contract documents to support creation of revision history and record document preparation.

 Chinook Systems, Inc. Smithsonian Institution Patent Office Building Washington, DC 20004	Change Bulletin			
	CB No. 031	Date 18-Aug-03		
<hr/>				
Issued By	Smithsonian Institution POB Field Office			
<hr/>				
Subject	Storm and Sanitary Connections Details			
References				
Drawing No	Rev No	Rev Date	Rev Description	Change Description
C-1-02	2	12-Aug-03	ASI 005	PCN 031
C-4-03	2	12-Aug-03	ASI 005	PCN 031
C-4-04	1	12-Aug-03	ASI 005	PCN 031
C-4-05	1	12-Aug-03	ASI 005	PCN 031
Sketch No	Rev No	Rev Date	Rev Description	Change Description
A-SK-44	-	14-Aug-03	ASI 005	



Features	Benefits
Change Orders	Communicates what scope is to be planned, designed, reviewed, priced, procured, built, and turned over Produces a formal record of all releases of design and construction documents Categorizes changes by type for trending purposes
Allowances	Tracks allowances and usage
Requests For Information	Formally documents clarifications to the contract documents and captures differing site conditions Optimizes communication and streamlines distribution through web based real time collaboration and email notification Defines impacts to contract documents and incorporation of changes
Submittal Management and Review	Web-based access to electronic submittals virtually eliminates distribution requirements Allows for web-based collaboration by multiple reviewers Enables centralized management of review comments greatly reducing submittal review turnaround time

Quality Assurance

The Quality Assurance Module was designed based on the U.S. Army Corps of Engineers Construction Quality Management Program and supports quality control activities from inspections to field testing and final punchlists.

Chinook Systems, Inc. Smithsonian Institution Patent Office Building Washington, DC 20004				Open Punchlist Items	
Floor	Wing	South Wing	Room No	Gallery	
Item No	Item Description	Detailed Location	Company	Date	
00145	Clean grout off stone	Near North Wall	Lorton Contracting Company, Inc.	28-Sep-05	
00146	Cleann off slobbers/large scraping	Along N Wall	Lorton Contracting Company, Inc.	28-Sep-05	
00147	Tidy slobber	S. Threshold Joint	Lorton Contracting Company, Inc.	28-Sep-05	
00148	Take out wood and patch with stone	East N. Corner	Lorton Contracting Company, Inc.	28-Sep-05	
00149	SW at Large Grout Joint 3rd stone from S. Wall		Lorton Contracting Company, Inc.	28-Sep-05	
00150	West Doorway - floor flush bolt missing	West Doorway	Lorton Contracting Company, Inc.	28-Sep-05	



Features	Benefits
Preparatory Meetings	Review scopes of work, ensure prerequisites are in place prior to contractors start of work, and optimize trade coordination Ensures work proceeds safely and complies with contract requirements
Notifications	Ensures adequate and timely notification and approval of shutdowns, inspections, and testing
Inspections	Verifies compliance to contract requirements and applicable codes and standards Ensures work is not concealed prior to approval
Testing	Administer specified requirements related to factory testing, third party testing and field testing Produce test documents from within the system
Punchlists	Ensure deficiencies and incomplete work is properly documented Manage completion of deficiencies prior to acceptance Manage punchlist items by company and location Trend of punchlist items to increased efficiencies
Non-Compliance Reports	Produce reports of installed work that is not compliant to the contract documents and/or codes and standards

Closeout

The Closeout Module allows the user to identify closeout requirements such as training sessions and O&M Manuals and schedule and manage their delivery

Chinook Systems, Inc. Smithsonian Institution Patent Office Building Washington, DC 20004			Training Requirements
Spec Section	Description	Equipment Type	Paragraph
15191	Fuel Oil Piping	Pump	3.10 A - Train COTR's maintenance personnel on procedures and schedules for starting and stopping, troubleshooting, servicing, and maintaining fuel oil pump sets. B. Review data in maintenance manuals. C. Schedule training with COTR, through Architect, with at least seven- (7) days' advance notice.
15251	General-Service Compressed Air Equipment	Air Compressor	3.06 A - Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain general-service compressed-air equipment.
15430	Plumbing Specialties	Trap Primer	3.06 A - Startup Services: Engage the factory authorized service representative to perform startup services and train Owner's maintenance personnel as specified below



Features	Benefits
Operations and Maintenance Data	Identification and management of O&M requirements ensures deliverables are project specific and complete Attention to detail will prove invaluable to the facilities operation and maintenance staff
Operator Training Facilitation	Ensure transition of knowledge of systems and equipment operation, maintenance and troubleshooting to facility operations and maintenance staff Track and status training requirements and deliverables Manage training sessions and schedules
Spare Parts and Special Tools	Facilitates budgeting based on equipment type, shelf life and unit cost
Warranty Management	Identifies warranty items. Captures warranty periods including start and end dates.

Project Administration

The Project Administration module allows for setup and management of projects, companies and contacts management and permission management. It also includes preparation of transmittals and meeting minutes



Features	Benefits
Project Administration	Allows for web-based centralized management of concurrent multiple projects
Companies and Contacts	Allows for centralized database organization of project contact list Enables management of contract deliverables by responsible company
Transmittals	Tracks the paper trail of transmitted documents and allows for reporting on distribution
Meeting Minutes	Preparation of meeting minutes in the database allows for ease of management and tracking of open items
Locations	Add room locations for tracking of equipment and punchlist information
Milestones	Setting milestones allows for better management of phased projects

Chinook Systems Inc.

VIRGINIA

1331 S. Eads St. Suite 1317
Arlington, VA 22202
Tel 703-232-6536
Fax 703-418-1886

FLORIDA

3400 Ocean Beach Blvd. Suite 611
Cocoa Beach, FL 32931
Tel 321-637-9673
Fax 321-637-9674

www.chinooksystems.com

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