Task #	Function	Labor	Enhancement	SouthCross Hours	Southcross Price	Dun Hours	Dunn Price
1	Review Operator Screens Conduct a comprehensive review of all screen interfaces used by operators to ensure functionality, clarity, and compatibility with the updated system.	Create SCADA Screen tracker share file to add comments and suggestions.	Overarching task to track comments and monitor progress of work being completed	120	$ 19,800	102	$ 16,830
2	Conversion of InTouch Legacy Graphics Transition existing graphics from the legacy InTouch system to the updated platform using the Wonderware conversion tool. This step ensures that all visual elements are properly adapted for the new environment.	Perform a backup of the InTouch graphics before starting the conversion process. Convert the graphics, and verify that all functions have been successfully converted by comparing them to the backup screens. Address any errors or warnings in the ArchestrA symbols to ensure a clean and error-free conversion.	Archestra Industrial Graphics	56	$ 9,240	47.6	$ 7,854
3	Conversion Process Using Wonderware Tool Leverage the Wonderware conversion tool to perform the migration of system components. This tool automates the transition process, ensuring compatibility with the updated platform.	Script Error Fixes for Converted Screens Review and resolve any script errors identified on the screens after the conversion. This step ensures all screens function correctly and are free of issues caused during the migration process.	Improved Performance and User Experience Post-conversion, the system is expected to deliver faster performance. Additionally, user warnings and bugs will be resolved, resulting in a smoother and more reliable user experience.	48	$ 7,920	40.8	$ 6,732
4	Modify graphics Navigation from script to "show symbol"	Fix Navigation from Script to ArchestrA "Show Symbol" Update the navigation mechanisms from script-based controls to use the ArchestrA "Show Symbol" functionality. This modernization improves system integration and reliability.	Transitioning to the ArchestrA "Show Symbol" reduces the overall resource requirements, leading to faster performance and lower disk space consumption.	40	$ 6,600	34	$ 5,610
5	Conversion of Third-Party Symbols (Symbol Factory by Richard Software) Identify and convert all graphic symbols originating from the "Symbol Factory by Richard Software" to maintain consistency and compatibility in the updated platform.	Updating Graphics from "Symbol Factory by Richard Software" to ArchestrA Graphics Transition all graphical elements created in "Symbol Factory by Richard Software" to the modern ArchestrA Graphics format. This ensures compatibility with the updated system and leverages enhanced graphical capabilities.	Improved Performance and Scalable Graphics The updated graphics will provide improved performance and the ability to resize elements without pixel distortion, offering a cleaner and more professional appearance across various screen resolutions.	56	$ 9,240	47.6	$ 7,854
6	Transition of Legacy Trends to Trend Client	Replace legacy trend components with the updated trend client to ensure functionality and alignment with the current system capabilities.	Maintain Consistent Look and Feel for Operators The updated trend client is designed to preserve the same visual appearance and user experience for operators, ensuring minimal disruption to their workflows while incorporating system improvements.	48	$ 7,920	40.8	$ 6,732
7	Graphics Status Validation Note that graphics status validation is not present in the legacy InTouch system. Establish and implement necessary processes or tools to validate graphic statuses within the updated system.	Add Status Icons to Graphics Integrate "Status Icons" into graphical elements such as motors, valves, and field instruments. These icons will provide real-time status updates directly within the graphics interface.	Improved Operator Confidence By displaying status icons, operators can now confirm that the system is accurately reading the PLC address. This improvement ensures better system reliability and enhances trust in the updated controls.	32	$ 5,280	27.2	$ 4,488
8	Enable IDE objects to support functionalities such as historizing data, displaying alarms, and reading PLC addresses. These capabilities are essential for system monitoring and control.	Conversion of Legacy Objects to Modern Attributes Transition legacy objects containing "Legacy Field Attributes" to the updated format with modern "Attributes." This conversion process is performed outside of the operating galaxy to ensure a smooth and effective migration.	Improved Searchability, Performance, and Diagnostics Modern attributes are fully searchable within the object and can be filtered, allowing for more efficient navigation and analysis. IDE performance is enhanced, overcoming the limitation of 64 recommended tags. Modern attributes provide additional status information for tags, simplifying troubleshooting within the galaxy environment. AVEVA extends support for these modern attributes, ensuring future compatibility and functionality. Increased Operator Confidence Operators can now trust that the system is communicating accurately and reliably with the PLC, further enhancing system usability and operational efficiency.	48	$ 7,920	40.8	$ 6,732
9	HMI Thin Client with High Screen Count and Hardware Limitations The HMI thin client currently manages over 600 screens, creating a heavy load and exposing the SCADA operation room to significant hardware limitations. This impacts system performance and scalability.	Screen and Resource Optimization Address system constraints by reducing the number of screens and optimizing resource usage. This approach is more practical and cost-effective than upgrading hardware to accommodate the existing screen count.	Improved Performance and Screen Reusability Enhance system performance by reusing the same screen to display multiple processes dynamically. This reduces the system's load while maintaining functionality, enabling operators to efficiently manage operations without additional hardware investment.	40	$ 6,600	34	$ 5,610
10	Identifying Abandoned Screens Detect and address screens within the system that are no longer in use or relevant to current operations.	Removing and Archiving Unused Screens Remove all unused screens from the InTouch application and archive them externally. This ensures that unnecessary elements do not clutter the system while maintaining a backup for future reference, if needed.	Optimized Resource Usage for HMI Clients By eliminating abandoned screens, reduce the resource demands on HMI clients, improving system performance and efficiency.	24	$ 3,960	20.4	$ 3,366
11	Handling Abandoned Equipment Identify equipment displayed on outdated screens that is no longer in use or relevant to current operations.	Collaborate with Operations on Equipment Status Engage with operations staff to determine if the equipment shown on old screens will be replaced in the future. Verify whether the current PLC logic can still be utilized for any potential replacements or updates.	Clean Up Abandoned Process Areas Remove all objects and tags associated with abandoned process areas. This reduces clutter and enhances system performance by eliminating unnecessary elements that no longer serve a purpose.	16	$ 2,640	13.6	$ 2,244
12	Addressing Duplicated Screens Identify and manage screens that are duplicated within the system to streamline operations and reduce redundancy.	Remove and Archive Duplicated Screens Eliminate duplicated screens from the active system and securely archive them for future reference if needed. This ensures a clean and organized environment.	Improved System Performance Removing duplicated screens optimizes resource usage, leading to enhanced system performance and a more efficient user experience.	24	$ 3,960	20.4	$ 3,366
13	Lack of Popup Reuse in InTouch Popups in the InTouch system are not currently designed for reuse, leading to inefficiencies in managing similar interface components.	Utilize Templates in ArchestrA for Faceplates Standardize the design and functionality of popups by using templates in ArchestrA. Templates will be created for motors, valves, and analog instruments, ensuring consistency and ease of implementation for their respective faceplates.	Simplified Maintenance and Improved Performance By implementing reusable templates, system maintenance becomes more straightforward, as updates can be applied globally rather than individually. This also reduces resource consumption and improves overall system performance.	16	$ 2,640	13.6	$ 2,244
14	Unnecessary Resource Usage by Unused Tags The system contains unused tags that occupy resources unnecessarily, leading to inefficiencies in system operations.	Removal of Unused Tags Without IDE Path Identify and clean up objects by removing tags that do not have a valid path to the Integrated Development Environment (IDE). This ensures that only essential tags remain in the system.	Improved System Performance and Operator Confidence Eliminating unused tags reduces resource consumption, enhancing overall system performance and responsiveness. With a streamlined system, operators can trust that all active tags are accurate and relevant, improving confidence in the system's functionality.	40	$ 6,600	34	$ 5,610
15	Lack of Out-of-Service Notification for Equipment The system does not currently provide a mechanism to mark equipment as out of service, creating potential confusion for operators during maintenance, replacements, or calibrations.	Implement an Out-of-Service Feature Develop and integrate an "Out of Service" feature into the system as requested. This feature will allow operators to designate equipment as temporarily unavailable for use.	Improved Maintenance Workflow and Reporting Accuracy Operators can mark equipment as out of service during maintenance, replacement, or calibration periods, ensuring clarity in operations. Analog values for the affected equipment will remain frozen in reports, preventing false readings or data drops until the equipment is brought back online. This functionality simplifies decision-making and maintains accurate records for operational and historical purposes.	16	$ 2,640	13.6	$ 2,244
16	Verify PLC Communications Loss alarms for PLCs not included in PLC Upgrades Scope	Check configurations, seetings and test each system.	Operator confidence that system is comunicating properly to PLC	32	$ 5,280	27.2	$ 4,488

17	Missing Tooltip and Navigation in "Screen Navigation" Area The "Screen Navigation" area currently lacks tooltips and navigation options when hovered over, limiting user guidance and efficiency.	Implement "Screen Navigation" and Tooltips Develop and integrate tooltips and navigation options into the "Screen Navigation" area. These features will provide immediate contextual information and facilitate easier access to related processes.	Improved User Agility and Actionability Users gain the ability to quickly view detailed information about specific areas, enhancing situational awareness. The added navigation options enable operators to take timely and informed actions directly from the navigation interface, improving overall operational efficiency.Graphics objects will be cleaned from errors and warnings. Improve operator screen vizualization, improve SCADA graphic performance index to 3>= (rated from 1 to 5)	88	$ 14,520	74.8	$ 12,342
18	Documentation of Work Performed on SCADA Conversion Process Generate comprehensive reports detailing the tasks performed during the SCADA conversion process to maintain clear and accurate records.	Prepare and Send Reports of Completed Work in the Process Area Compile detailed summaries of completed work for each process area and distribute them to relevant stakeholders for review and record-keeping.	Improved Tracking and Accountability Facilitates accurate tracking of completed tasks, ensuring that all conversion work is properly documented. Enhances accountability by providing clear evidence of progress and completion, streamlining communication between teams and stakeholders.	48	$ 7,920	40.8	$ 6,732
			Totals	792	$ 130,680	673.2	$ 111,078