

Project Summary for the period 4/19/2008 – 4/26/2010

The following table contains a summary of projects, customer, document deliverables, project start and end dates, and customer location for the prior two (2) years. Please note that many of the projects have overlapping dates.

Description	Customer	Deliverable	Start Date – End Date	City, State
Merck Waste Water Treatment Plant: <ul style="list-style-type: none"> • Requirements specification generation • Design specification generation 	Merck & Co., Inc.	<ul style="list-style-type: none"> • <u>TA-71 Control System Requirements Specification</u> • <u>TA-71 Control System Design Specification</u> 	4/19/2008 – 6/21/2008	Elkton, Va.
Arlington Waste Water Treatment Plant: <ul style="list-style-type: none"> • Operation and maintenance manuals compilation • Instrumentation provider start-up plan generation • Device calibration standard operating procedures generation • Witness Factory Test generation • Instrumentation training material 	Arlington County Water Pollution Control Plant	<ul style="list-style-type: none"> • <u>Arlington County Water Pollution Control Plant Upgrade and Expansion Project Phase 7B Arlington Waste Water Treatment Facility</u> multiple (20) instruments • <u>Arlington Water Pollution Control Plant, Arlington, Va. Division 17 Instrumentation Provider Startup Plan</u> • <u>Arlington County Water Pollution Control Plant, Arlington, Va. [devices, 20 each] Calibration Instructions</u> • <u>Arlington County Water Pollution Control Plant, Arlington, Va. Construction Phase 7A Remote Input Output [device, 19 each] Test Procedures: Witness Factory Test</u> • Student and instructor manuals 	6/28/2008 – 2/23/2009	Arlington, Va.

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Instrumentation and control system Factory Acceptance Test (FAT): <ul style="list-style-type: none"> • Input/output (IO) test generation • Device functional test generation • Alarm and interlock test generation • System timed (100-hour) test generation 	Loudon County (Va.) Sanitation Authority	<u>Elklick Run Sewage Pump Station Sewage Pumping Station – Pump Station Control Panel Factory Acceptance Test</u>	10/27/2008 – 11/10/2008	Chantilly, Va.
Pump station operator interface terminal (OIT) operation and maintenance manual: <ul style="list-style-type: none"> • Interview subject matter experts (SME) for system operation • Generate, submit, and revise manual 	Loudon County (Va.) Sanitation Authority	<u>Elklick Run Sewage Pump Station Pump Station Control System Operation & Maintenance Manual</u>	10/30/2008 – 12/02/2008	Chantilly, Va.
Windows Server 2003 Disaster Recovery Manual: <ul style="list-style-type: none"> • Interview SME(s) for requirements • Generate, submit for review, and update document 	Merck & Co., Inc.	<u>Solid Dosage Standard Modules HMI Upgrade, Installation, and Configuration Manual</u>	11/07/2008 – 12/06/2008	Elkton, Va.

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Wastewater Treatment Facility: <ul style="list-style-type: none"> • Factory Acceptance Tests generation • Performance Test generation 	Harrisonburg-Rockingham Regional Sewer Authority	<ul style="list-style-type: none"> • <u>North River Waste Water Treatment Facility PCS [1 – 5] RAS/WAS Station No. [n] Factory Acceptance Test</u> • <u>North River Waste Water Treatment Facility PCS[n] RAS/WAS Station No. [n] Field Test Phase VI Process Waste Water Performance Test</u> 	12/22/2008 – 1/26/2009	Mt. Crawford, Va.
Merck NOVASEP DeltaV software validation: <ul style="list-style-type: none"> • Server IOQ documents generation • DeltaV user interface conversion test specification 	Merck & Co., Inc.	<ul style="list-style-type: none"> • <u>Factory 8 DeltaV V7.4.2 [node name] Software Installation/Operation Qualification on Windows Server 2003 three (3) each</u> • <u>Factory 8 NOVASEP HPLC iFIX to DeltaV Interface Conversion Test Specification</u> 	1/8/2009 – 1/18/2010	Elkton, Va.
Merck Waste Water Treatment Phosphorus Precipitation: <ul style="list-style-type: none"> • Design Specification generation • Input/Output test script generation • Alarm test script generation 	Merck & Co., Inc.	<ul style="list-style-type: none"> • <u>Wastewater Treatment Plant Phosphorous Precipitation Design Specification</u> • I/O test script (appendix to IOQ by others) • Alarm test scripts (appendix to IOQ by others) 	3/14/2009 – 9/7/2009	Elkton, Va.

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Description	Customer	Deliverable	Start Date – End Date	City, State
Charleston Naval Brig: <ul style="list-style-type: none"> • System Requirements Document (SRD) generation • Pre-Installation Testing and Checkout (PITCO) document generation • System Operation and Verification Test (SOVT) document generation 	Space and Naval Warfare Systems Center (SPAWARSYSCEN) Charleston	<ul style="list-style-type: none"> • <u>Naval Consolidated Brig, Charleston, Electronic Security Control System System Requirements Document</u> • <u>Naval Consolidated Brig, Charleston, Electronic Security Control System Pre-Installation Testing and Checkout</u> • <u>Naval Consolidated Brig, Charleston, Electronic Security Control System System Operational Verification Test</u> 	6/8/2009 – 10/1/2009	Charleston, South Carolina
Anne Arundel County Courthouse Electronic Security and Control System Operation and Maintenance Manual	Circuit Court Anne Arundel County Courthouse	<ul style="list-style-type: none"> • <u>Circuit Court for Anne Arundel County, Annapolis, Md. Detention Center – Electronic Security and Control System Operation and Maintenance Manual</u> 	7/27/2009 – 8/3/2009	Annapolis, Md.
Merck Diaphragm Valve Test System Design Specification	Merck & Co., Inc.	<ul style="list-style-type: none"> • <u>Sanitary Diaphragm Valve Test Control System Design Specification</u> 	9/3/2009 – 11/12/2009	Elkton, Va.
Merck Wastewater Treatment Plant (Even Basins) validation: <ul style="list-style-type: none"> • Requirements specification (RS) generation • Design specification (DS) generation • Automation Installation Qualification (AIQ) document generation • Automation Operation Qualification (AOQ) document generation 	Merck & Co., Inc.	<ul style="list-style-type: none"> • <u>WWTP Nutrient Reduction Control System Requirements Specification</u> • <u>WWTP Nutrient Reduction Control System Design Specification</u> • <u>Nutrient Reduction Wastewater Treatment Plant Automation Installation Qualification (AIQ) Protocol</u> • <u>Nutrient Reduction Wastewater Treatment Plant Automation Operation Qualification (AOQ) Protocol</u> 	9/26/2009 – 12/23/2009	Elkton, Va.

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Merck/Dodson SQL Database Validation: <ul style="list-style-type: none"> • Requirements Specification (RS) generation • Design Specification (DS) generation • Acceptance Test Plan (ATP) • Requirements Traceability Matrix (RTM) generation 	Merck & Co., Inc.	<ul style="list-style-type: none"> • <u>Client Data Management System Requirements Specification</u> • <u>Client Data Management System Design Specification</u> • <u>Client Data Management System Acceptance Test Plan</u> • <u>Client Data Management System Requirements Traceability Matrix</u> 	1/18/2010 – 3/29/2010	Elkton, Va.
Dulles Metrorail Project: <ul style="list-style-type: none"> • Tipover box First Article Testing test generation • Pre-Installation Testing and Checkout document generation • Inspection and Check Out Test document generation 	Alstom Signaling, Inc.	<ul style="list-style-type: none"> • <u>Dulles Corridor Metrorail Project – ATC Tipover Box First Article Testing</u> • <u>Dulles Corridor Metrorail Project – ATC Intrusion Detection Warning System – N Route Pre-Installation Testing and Check Out</u> • <u>Dulles Corridor Metrorail Project – ATC WTP1.35 Acceptance Level D Intrusion Detection Warning System – Inspection and Checkout Test</u> 	3/8/10 – 4/26/2010	Dulles, Va.
H. L. Mooney Wastewater Treatment Plant Operation and Maintenance Manuals Volumes 1 – 3 compilation	Prince William County Service Authority	<ul style="list-style-type: none"> • <u>Prince William County Service Authority H. L. Mooney Stage 2 Phase 1 Operation & Maintenance Manual, Volume[s] 1, 2, 3</u> 	3/31/2010 – 4/26/2010	Woodbridge, Va.