

Draft Document for Discussion Purposes



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# Hydrostatic Test Program Document Management

July 13, 2011



# Process Highlights

## Construction Management Field Engineers

- Field Engineers (Powell and Stack) will be on-site at the end of all tests to collect stage 1 documents
- Field Engineers will conduct QC reviews of all stage 1 documents and physically deliver the documents to Walnut Creek within 72 hours following test

## RCP and Bureau Veritas

- RCP will certify successful completion of hydrostatic tests immediately following test execution and provide signed certification documentation on-site
- RCP will provide one hard copy of the certification to Bureau Veritas.
- Bureau Veritas will verify execution of site specific test procedure and issue an interim certification email within 24 hours of test execution
- Bureau Veritas will deliver and upload to BV.net web site formal certification within 5 days after required documents are provided

## GTS

- GTS will receive and conduct QA spot checks for stage 1 and 2 packages
- GTS will deliver QA'd stage 1 packages to Mapping/Documentation within 3 days
- GTS will deliver QA'd stage 2 packages to Mapping/Documentation within 5 days

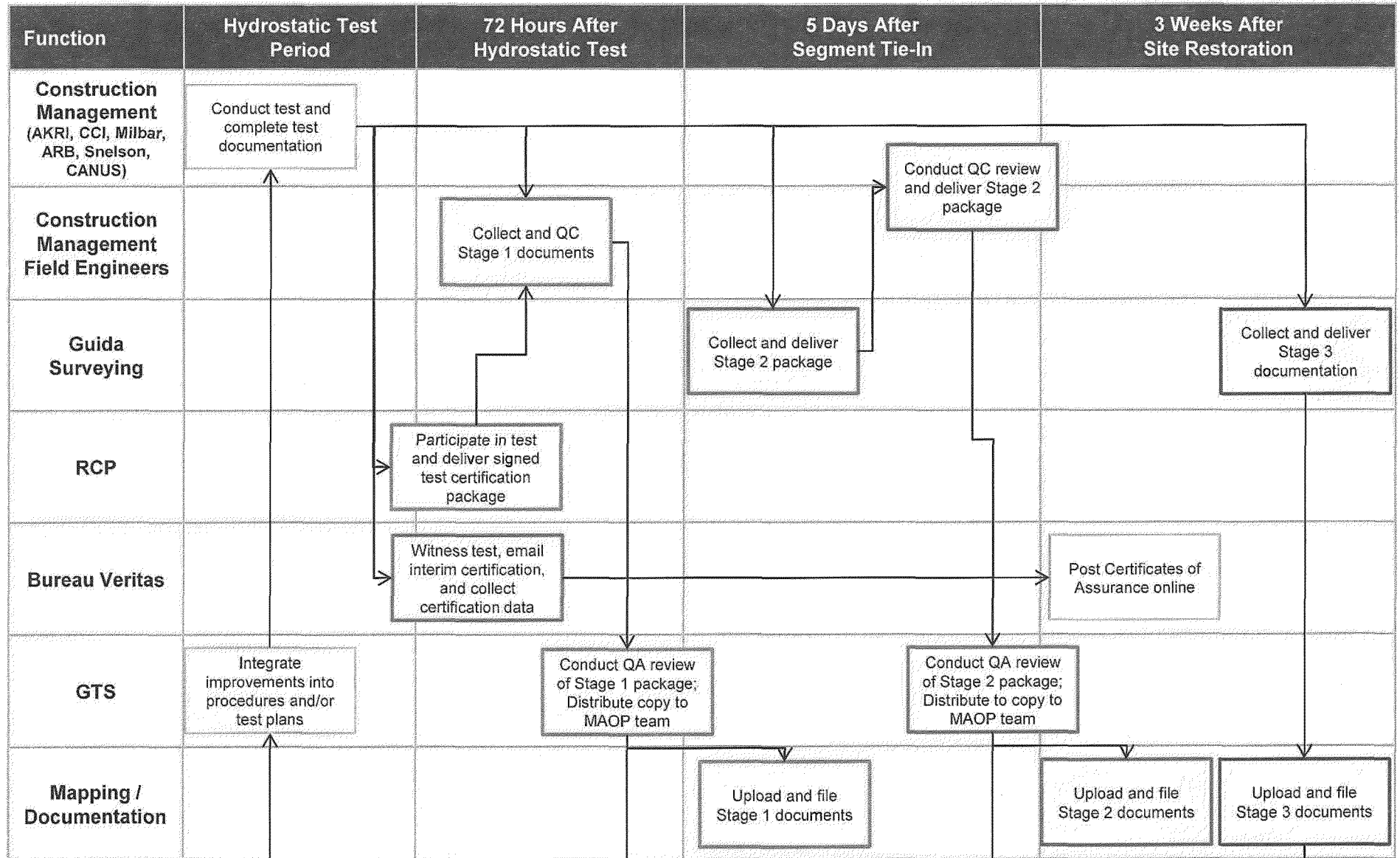
## Mapping/Document

- Mapping/Documentation will upload documentation and mapping data to appropriate systems within 2 weeks after receipt from GTS

<p><b>Documents Required for Bureau Veritas Certification</b></p> <ul style="list-style-type: none"><li>• STPR and Supporting Charts (QC/QA reviewed and signed)</li><li>• Site Specific Test Procedure (signed)</li><li>• RCP Certification</li></ul>
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# Document Management Process



Stage 1   Stage 2   Stage 3



# As-Built Documentation Package

	Documents	Source	On-Site QC	Package Collection	Full Quality Control Review	Quality Assurance Review	Availability	
Stage 1	STPR(s) (signed)	AKRI/CCI/Milbar*		Construction Management Field Engineers		GTS	Deliver to Walnut Creek within 72 hours after completion of hydrostatic test	
	Pressure / Temperature Recording Charts	AKRI/CCI/Milbar*						
	Dead Weight Pressure Logs	AKRI/CCI/Milbar*						
	Hydrostatic Test Certification Package	RCP						
	Profile Sheet in Drawing Package	ARB/Snelson*						
	Design Change Notice (if applicable)	GTS						
Stage 2	Site Specific Test Procedure (signed)	CANUS*	CANUS*	Guida Surveying*	CANUS*	GTS	Deliver to Walnut Creek within 5 days after test segment tie-in	
	Red-lined Drawings (including GPS coordinates)	CANUS*						
	Weld Inspection Stamp (signed)	ARB/Snelson*						
	Weld Map (may be red-lined)	ARB/Snelson*						
	Dew Point Test Form & Supporting Data	ARB/Snelson*						
	Main Inspection Report (Form A)	General Construction						
	Chain of Custody, Abandonment, Asset Registry Data (if applicable)	ARB/Snelson*						
	Bill of Material	ARB/Snelson*						
	Pipeline Repair, Emergency Pipeline Test Data (if applicable)	ARB/Snelson*						
	Radiographer Daily Inspection Sheets	CANUS*						
	Certification of Results	Bureau Veritas						
	Direct Examination (Form H)	General Electric						
	Max Test Pressure Approvals (signed)	Keifner & Associates						
	ABI	ATC						
	Destructive Test Results	ATS						
Stage 3	Final Package (including Restoration data), Construction Binder	Construction Management	NA	Guida Surveying*	NA	TBD	Deliver to Walnut Creek 3 weeks after site restoration	
	Construction Inspection Documents	CANUS*						
	Quality Sampling Documents	GTS						

\* Organizations or contractors under leadership of Construction Management



# Stage 1 and 2 Package Delivery Status

Test Segment (Line)	Location	Hydrostatic Test Date	Original Target Date	Stage 1 Package Delivery		Notes	Original Target Date	Stage 2 Package Delivery		Notes
				Completion of QC and Delivery to WC (72 hours post test)	Completion of QA and Delivery to Mapping (3 days after receipt in Walnut Creek)			Completion of QC and Delivery to WC (5 days post tie-in)	Completion of QA and Delivery to Mapping (3 days after receipt in Walnut Creek)	
T40/T41 (131)	Mountain View	5/9/2011	6/24/2011	Delivered 06/24/11	7/15/2011		6/22/2011	Delivered 6-27-11		Under GTS QA
T96A (SP5)	Oakley	5/16/2011	6/24/2011	Delivered 7/01/2011	7/15/2011		6/22/2011	Delivered 6-27-11		Under GTS QA
T96B (SP5)	Antioch	5/19/2011	6/24/2011	Delivered 06/24/11	7/15/2011		6/22/2011	Delivered 6-27-11		Under GTS QA
T2 (101)	San Jose	6/4/2011	7/1/2011	7/22/2011			6/28/2011			90% complete
T3 (101)	Santa Clara	6/7/2011	7/1/2011	7/22/2011			6/28/2011			90% complete
T11 (105)	Newark	6/5/2011	7/11/2011	Delivered 7/6/11	7/15/2011		6/28/2011	Delivered 07/01/11		Under GTS QA
T51 (300A)	Newberry	6/8/2011	7/8/2011	Delivered 07/12/11		Under GTS QA	6/24/2011	Delivered 07/12/11		Under GTS QA
T52 (300A)	Newberry Springs	6/6/2011	7/8/2011	Delivered 07/12/11		Under GTS QA	6/24/2011	Delivered 07/12/11		Under GTS QA
TV36A (132)	San Bruno	6/9/2011	7/15/2011	Delivered 7/6/11	7/15/2011		6/27/2011	TBD		On hold
TV36B (132)	San Bruno	6/13/2011	7/15/2011	Delivered 7/01/2011	7/15/2011		6/27/2011	TBD		On hold
T77 (300B)	Newberry Springs	6/16/2011	7/8/2011	7/20/2011		On track	6/27/2011	7/8/2011		
T25A (132)	Santa Clara	6/18/2011	6/24/2011	Delivered 7/01/2011	7/15/2011		7/1/2011	Delivered 07/01/11		Under GTS QA
T45 (153)	Union City	6/28/2011	6/29/2011	Delivered 7/6/11	7/15/2011					
T62 (300A)	Kettleman City	6/26/2011	7/5/2011	Delivered 7/01/2011	7/15/2011		7/8/2011	7/11/2011		
T63 (300A)	Kettleman City	6/24/2011	7/5/2011	Delivered 7/01/2011	7/15/2011		7/8/2011	7/11/2011		
T85 (300B)	Cantua Creek	6/28/2011	7/7/2011	Delivered 7/01/2011	7/15/2011		7/11/2011	7/11/2011		
T46 (153)	Hayward	7/8/2011	7/13/2011	7/14/2011						