SAMPLE ANNUAL MAINTENANCE AND REPAIR REPORT

2012-13 MAINTENANCE AND REPAIR REPORT
ON TELEMETRY COMPONENT OF LADPW
BRIDGESTONE RUBBER DAMS

CONTRACT:BRIDGESTONE RUBBER DAM SYSTEM TELEMETRY COMPONENT MAINTENANCE SERVICES (2009-IT001)

JULY 27, 2013

VERIFICATION STATEMENT:

To the best of my knowledge, the following information presented in this inspection report is certified to be true and correct.

PRIME CONTRACTOR:

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Repair work authorized for the contract BRIDGESTONE RUBBER DAM SYSTEM TELEMETRY COMPONENT MAINTENANCE SERVICES (2009-IT001) for the 2012-13 contract year is described in the four Repair Reports listed above. All work authorized in the Reports has been completed as of the June 27, 2013 date of this Annual Repair Report.

RUBBER DAM MAINTENANCE & REPAIR REPORT

INTRODUCTION

CONTRACT: BRIDGESTONE RUBBER DAM SYSTEM PRIMARY MAINTENANCE SERVICES (2008-AN045)

INTRODUCTION FOR 2013-14 RUBBER DAM MAINTENANCE & REPAIR REPORT

The LADPW Contract BRIDGESTONE RUBBER DAM SYSTEM PRIMARY MAINTENANCE SERVICES was awarded in early June of 2009 to and its consultant. The intention of the multi-year contract was to provide inspection and maintenance services for the 16 LADPW Bridgestone Rubber Dams. Inspections of all facilities were conducted by in December 2013. Please refer to the Report on 2013-14 Inspection of LADPW Rubber Dams for further details.

Each of the 16 Bridgestone Rubber Dam systems consists of an inflatable rubber bladder and associated mechanical and control equipment. The Obermeyer Gate at Hansen Spreading Grounds consists of a set of steel plates with rubber bladders underneath. In general the rubber component at each site was found to be in good condition including repairs made in previous years.

The Rubber Dams are inflated whenever flows permit during the LADPW storm season which runs from October 15 to April 15 each year. The Rubber Dams are operated occasionally during the remainder of the year outside of the storm season.

Maintenance at each of the 17 sites was performed as necessary in accordance with the project specifications as documented in the first 17 sections of this report. Maintenance dates are listed as the same date as the inspection date as a significant part of the routine maintenance was accomplished at the same time as the inspection. Further maintenance was accomplished in subsequent visits as necessary.

Copies of Repair Reports NO. 2013-1, NO. 2013-2, NO. 2013-3, 2013-4, NO. 2013-5, NO. 2013-6, NO. 2013-7 and NO. 2013-8 are included in Section 18 of this report.

1) SAN GABRIEL RIVER @ SANTA FE DAM: TG568-D6

Project Name	Santa Fe @ I 210	No. TG 568-D6	SF FINAL RO
Size	6.0' H x 575' L x 1/1.0 H	Maintenance Date	December 2013
Owner	LADPW	Inspector	December 2010
Installation Date	Installed 1995	mopector	1
Location	Los Angeles County, California, U	ISA	
Purpose	Groundwater Recharge		
(1) MAINTENA			
Rubber Dam maii specifications:	ntenance was performed as necessa	ry in accordance with the pro	ject
specifications.			
Control House			
Specification	Maintained manhole covers, floor	hatches, minor electrical po	wer, and control
Items i-ii	circuitry according to specidication	_	
Rubber Dam	needed.		
Specification	Maintained the blower, filters, cla	amping bolts, deflation valves	, and drain line as
Items i-iv	necessary.	,	,
Rubber Dam Byp.	ass Gates (where applicable)		
Specification	Maintained as needed electrical p	ower connections and mecha	nical aspects affiliated
Items i-ii	with the bypass gates.		
Electrical Overloa	ad Breaker Box and Rubber Dam Co	ontrol Panel and Appurtenanc	<u>ces</u>
Specification			
items i-vi	Maintained the control house ele		
OTEN PARTIES OF THE P	touchscreen, pressure gage system		
Ml	motor valves and programmable	logic controller according to	specifications.
<u> </u>	matic Deflation System Maintained the stilling well, buck	ot valve and connections of	the automatic
Specification items i-ii	Maintained the stilling well, buck mechanical deflation system as no		
Conclusionary M	laintenance Operation		
Specification Iter	n		was word-
į	The facility was tested for prope	r operation after all maintena	nce work.
Maintenance not	es taken while completing the items	s above:	
1	Performed troubleshooting of the	e Controller PLC for minor al	arms found at site.
2	The mechanical deflation bucket	adjusted to maximize perform	nance.
3	Cleaned off the touch screen and	checked operation.	
4	Monitored pressure transducer p	erformance to assure it was v	working within operating
	operating range.		
5	Monitored level transducerperfor	mance to assure it was worki	ing within operating
	range.		
6	Monitored all areas of small radiu		
	No new damage observed. Right	abutment cracking repaired	May 2013.

(2) COMMENTS

2) SAN GABRIEL RIVER @ VALLEY BLVD. #1: TG637-G3

Project Name	Valley # 1 @ Valley Blvd.	No. TG 637-G3	V-1_FINAL_R0
Size	10.0' H x ~450' L x 1/0.5 H	Maintenance Date	December 2013
Owner	LADPW	Inspector	
Installation Date	Installed 1999		
Location	Los Angeles County, California, US	SA .	
Purpose	Groundwater Recharge		
(1) MAINTENA	NCE RESULT		
Rubber Dam main specifications:	ntenance was performed as necessary	in accordance with the pro	ject
Control House			
Specification Items i-ii	Maintained manhole covers, floor he circuitry according to specidications needed.		
Rubber Dam			
Specification Items i-iv	Maintained the blower, filters, clam necessary.	iping bolts, deflation valves	, and drain line as
Rubber Dam Byp	ass Gates (where applicable)		
Specification Items i-ii	Maintained as needed electrical powith the bypass gates.	wer connections and mecha	nical aspects affiliated
Electrical Overlo	ad Breaker Box and Rubber Dam Con	trol Panel and Appurtenanc	<u>ces</u>
Specification items i-vi	Maintained the control house elect touchscreen, pressure gage system, motor valves and programmable log	level monitoring system, t	ransducers, sensors,
Mechanical Auto	matic Deflation System	5	•
Specification items i-ii	Maintained the stilling well, bucket mechanical deflation system as need		
Conclusionary M	laintenance Operation		
Specification Iter		operation after all maintena	nce work.
Maintenance not	es taken while completing the items a	above:	
1	Performed troubleshooting of the C		arms found at site.
2	The mechanical deflation bucket ad		
3	Cleaned off the touch screen and c	•	
4	Monitored pressure transducer per	-	working within operating
	operating range.		-
5	Monitored level transducerperform operating range.	ance to assure it was worki	ing within operating

(2) COMMENTS

3) SAN GABRIEL RIVER @ VALLEY BLVD. #2: TG637-F4

Project Name	Valley # 2 @ Valley Blvd.	No. TG 637-F4	V-2_FINAL_RO
Size	8.0' H x ~450' L x 1/0.5 H	Maintenance Date	December 2013
Owner	LADPW	Inspector	
nstallation Date	Installed 2003		
Location	Los Angeles County, California, U	SA	
Purpose	Groundwater Recharge		
(1) MAINTENA	NCE RESULT		
Rubber Dam mair	itenance was performed as necessary	y in accordance with the pro	ject
specifications:			
Control House			
Specification	Maintained manhole covers, floor	hatches, minor electrical po	wer, and control
Items i-ii	circuitry according to specidication needed.	ns. Replaced any damaged o	or missing items as
<u>Rubber Dam</u>			
Specification	Maintained the blower, filters, clar	nping bolts, deflation valves	, and drain line as
Items i-iv	necessary.		
Rubber Dam Bypa	ss Gates (where applicable)		
Specification	Maintained as needed electrical po	ower connections and mecha	nical aspects affiliated
Items i-ii	with the bypass gates.	*	-
Electrical Overloa	d Breaker Box and Rubber Dam Cor	ntrol Panel and Appurtenanc	<u>es</u>
Specification			
items i-vi	Maintained the control house elec		•
	touchscreen, pressure gage system		
	motor valves and programmable lo	ogic controller according to	specifications.
	matic Deflation System		
Specification	Maintained the stilling well, bucke		
items i-ii	mechanical deflation system as nee	eded according to specificati	ons.
	aintenance Operation		
Specification Iten	¹ The facility was tested for proper	operation after all maintena	nce work.
i	The facility mas tosted for proper	oporación arcer an manicena	1101A1
Maintenance note	es taken while completing the items	ahove.	
i idilitaliance non	Performed troubleshooting of the		arms found at site
	i cholinea doubleshooting of the	Controller i LC for millior at	
-1	The mechanical deflation bucket a	diusted to maximize perform	iance
1 2	The mechanical deflation bucket ac	•	iance.
1 2 3	Cleaned off the touch screen and	checked operation.	
1 2	Cleaned off the touch screen and of Monitored pressure transducer pe	checked operation.	
1 2 3	Cleaned off the touch screen and	checked operation. rformance to assure it was v	vorking within operation

(2) COMMENTS

4) SAN GABRIEL RIVER @ VALLEY BLVD. #3: TG637-E5

Project Name	Valley # 3 @ Valley Blvd.	No. TG 637-E5	V-3_FINAL_RO
Size	8.0' H x ~450' L x 1/0.5 H	Maintenance Date	December 2013
Owner	LADPW	Inspector	
Installation Date	Installed 2003		
Location	Los Angeles County, California, U	SA	
Purpose	Groundwater Recharge		
(1) MAINTENA	ANCE RESULT		
Rubber Dam mai specifications:	ntenance was performed as necessary	y in accordance with the pro	ject
Control House Specification Items i-ii	Maintained manhole covers, floor circuitry according to specidication needed.	•	,
Rubber Dam Specification Items i-iv	Maintained the blower, filters, clar necessary.	nping bolts, deflation valves	, and drain line as
Rubber Dam Byp	ass Gates (where applicable)		
Specification Items i-ii	Maintained as needed electrical powith the bypass gates.	ower connections and mecha	nical aspects affiliated
Electrical Overlo	ad Breaker Box and Rubber Dam Cor	ntrol Panel and Appurtenanc	es
Specification			
items i-vi	Maintained the control house electouchscreen, pressure gage system motor valves and programmable lo	, level monitoring system, t	ransducers, sensors,
Mechanical Auto	omatic Deflation System	igic controller according to t	pecineutions.
Specification	Maintained the stilling well, bucke	t valve and connections of	the systematic
items i-ii	mechanical deflation system as nee		
	mechanical deflation system as nee		
	mechanical deflation system as need faintenance Operation	eded according to specificati	ons.
Conclusionary № Specification Iter i	mechanical deflation system as need to a laintenance Operation The facility was tested for proper	eded according to specificati	ons.
Conclusionary M Specification Iter i	mechanical deflation system as need faintenance Operation The facility was tested for proper test taken while completing the items	eded according to specificati operation after all maintena	ons. nce work.
Conclusionary M Specification Iter i Maintenance not	mechanical deflation system as need that it is made as need to be a simple to mechanical deflation. The facility was tested for proper test taken while completing the items. Performed troubleshooting of the	eded according to specification operation after all maintenand above: Controller PLC for minor all	ons. nce work. arms found at site.
Conclusionary M Specification Iter i Maintenance not	mechanical deflation system as need that the facility was tested for proper test taken while completing the items. Performed troubleshooting of the The mechanical deflation bucket on the system.	eded according to specification operation after all maintenand above: Controller PLC for minor all perated to maximize perforn	ons. nce work. arms found at site.
Conclusionary M Specification Iter i Maintenance not 1 2	mechanical deflation system as need that it is made as need to be a simple to mechanical deflation. The facility was tested for proper test taken while completing the items. Performed troubleshooting of the	eded according to specification operation after all maintenand above: Controller PLC for minor all perated to maximize perforn the checked operation.	ons. nce work. arms found at site. nance.
Conclusionary M Specification Iter i Maintenance not 1 2 3	mechanical deflation system as need to make the facility was tested for proper test taken while completing the items. Performed troubleshooting of the The mechanical deflation bucket of Cleaned off the touch screen and Monitored pressure transducer performed troubleshooting of the mechanical deflation bucket of the touch screen and the material deflation bucket of the touch screen and the material deflation bucket of the touch screen and the material deflation bucket of the touch screen and the material deflation bucket of the touch screen and the material deflation bucket of the touch screen and the material deflation bucket of the touch screen and the material deflation bucket of the touch screen and the material deflation bucket of the material d	eded according to specification operation after all maintenand above: Controller PLC for minor allowerated to maximize perforn the checked operation. The character of the cha	ons. nce work. arms found at site. nance. vorking within operation

(2) COMMENTS

5) SAN GABRIEL RIVER @ BEVERLY BLVD. #1: TG676-J3

	San Gabriel #1 @ Beverly Bvld.	No. TG676-J3	SG-1_FINAL_RO
Size	5.5' H x 200' L x 1/0.5 H	Maintenance Date	December 2013
Owner	LADPW	Inspector	
Installation Date	1999		
Location	Los Angeles County, California, USA	1	
Purpose	Groundwater Recharge		
(1) MAINTENA	NCE RESULT		
Rubber Dam main specifications:	tenance was performed as necessary i	n accordance with the pro	ject
Control House Specification Items i-ii	Maintained manhole covers, floor ha circuitry according to specidications. needed.	· · · · · · · · · · · · · · · · · · ·	
Rubber Dam Specification Items i-iv	Maintained the blower, filters, clamp necessary.	oing bolts, deflation valves	, and drain line as
Rubber Dam Bypa	ss Gates (where applicable)		
Specification Items i-ii	Maintained as needed electrical powwith the bypass gates.	er connections and mecha	nical aspects affiliated
Electrical Overloa	d Breaker Box and Rubber Dam Contr	ol Panel and Appurtenanc	<u>es</u>
Specification			
items i-vi	Maintained the control house electri touchscreen, pressure gage system, I motor valves and programmable logi matic Deflation System Maintained the stilling well, bucket,	evel monitoring system, to controller according to	ransducers, sensors, specifications.
items i-ii	mechanical deflation system as need	ed according to specificati	ons.
Conclusionary M	aintenance Operation		
Specification Item	The facility was tested for proper op	peration after all maintena	nce work.
<u>I</u>			
Maintenance note	es taken while completing the items ab	ove:	
1 <u>Maintenance note</u> 1	es taken while completing the items ab Performed troubleshooting of the Co		arms found at site.
		ontroller PLC for minor al	
1	Performed troubleshooting of the Co	ontroller PLC for minor al rated to maximize perform	
1 2	Performed troubleshooting of the Co The mechanical deflation bucket ope	ontroller PLC for minor al rated to maximize performecked operation.	nance.
1 2 3 4	Performed troubleshooting of the Co The mechanical deflation bucket ope Cleaned off the touch screen and che Monitored pressure transducer perfo operating range.	ontroller PLC for minor al rated to maximize perform ecked operation. ormance to assure it was v	nance. vorking within operatir
1 2 3	Performed troubleshooting of the Co The mechanical deflation bucket ope Cleaned off the touch screen and ch Monitored pressure transducer perfo	ontroller PLC for minor al rated to maximize perform ecked operation. ormance to assure it was v	nance. vorking within operatir
1 2 3 4 5	Performed troubleshooting of the Co The mechanical deflation bucket ope Cleaned off the touch screen and che Monitored pressure transducer performance operating range. Monitored level transducer performance.	ontroller PLC for minor al rated to maximize perform ecked operation. ormance to assure it was work	nance. vorking within operating
1 2 3 4	Performed troubleshooting of the Co The mechanical deflation bucket ope Cleaned off the touch screen and che Monitored pressure transducer performance operating range.	ontroller PLC for minor al rated to maximize performecked operation. ormance to assure it was work ann foundation. No seepagam foundation. No seepagam	nance. working within operation ing within operating ge noted.

6) SAN GABRIEL RIVER @ WHITTIER BLVD. #2: TG676-H4

Project Name	San Gabriel # 2 @ Whittier Blvd	No. TG 676-H4	SG-2_FINAL_RO
Size	7.66' H x 200' L x 1/0.5 H	Maintenance Date	December 2013
Owner	LADPW	Inspector	
Installation Date	1999		
Location	Los Angeles County, California, USA		
Purpose	Groundwater Recharge		
(1) MAINTENA	NCE RESULT		
Dukkan Dam wai			:- m4
specifications:	ntenance was performed as necessary in	raccordance with the pro	gect
specifications.			
Control House			
Specification	Maintained manhole covers, floor ha	ches, minor electrical po	wer, and control
Items i-ii	circuitry according to specidications.	Replaced any damaged of	or missing items as
	needed.		
Rubber Dam			
Specification	Maintained the blower, filters, clamp	ing bolts, deflation valves	, and drain line as
Items i-iv	necessary.		
<u>Rubber Dam Byp</u>	ass Gates (where applicable)		
Specification	Maintained as needed electrical power	er connections and mecha	nical aspects affiliated
Items i-ii	with the bypass gates.		
Electrical Overlo	ad Breaker Box and Rubber Dam Contro	ol Panel and Appurtenand	<u>ces</u>
Specification			
items i-vi	Maintained the control house electric	al overload breaker box,	control panel,
	touchscreen, pressure gage system, le	evel monitoring system, t	ransducers, sensors,
	motor valves and programmable logic	controller according to	specifications.
	matic Deflation System		
Specification	Maintained the stilling well, bucket, v	·	
items i-ii	mechanical deflation system as neede	d according to specificati	ons.
Conclusionary M	laintenance Operation		
Specification Iter	n		
i	The facility was tested for proper op	eration after all maintena	nce work.
Maintenance not	es taken while completing the items ab		
1	Performed troubleshooting of the Co		
2	The mechanical deflation bucket open	•	nance.
3	Cleaned off the touch screen and che	=	
4	Monitored pressure transducer perfo	rmance to assure it was v	vorking within operatin
5	operating range. Monitored level transducer performs	nce to accure it was work	ing within anarotina
3	Monitored level transducer performa range.	nce to assure it was work	mg within operating
6)	Monitored damaged area under fin.	No change noted	
O,	. Tomtored damaged area under IIII.	ivo change noted.	
(2) COMMENT	TS		
	nts - See MAINTENANCE & REPAIR R		

7) SAN GABRIEL RIVER @ WASHINGTON BLVD. #3: 676-G7

Project Name	San Gabriel # 3 @ Washington Blvd	No. 676-G7	SG-3_FINAL_R0
Size	6.0' H x 200' L x 1/0.5 H	Maintenance Date	December 2013
Owner	LADPW	Inspector	
Installation Date	Replaced 1998		B. Comments
Location	Los Angeles County, California, USA		
Purpose	Groundwater Recharge		
(1) MAINTENA	ANCE RESULT		
Rubber Dam mai specifications:	ntenance was performed as necessary in a	ccordance with the pro	ject
Control House			
Specification Items i-ii	Maintained manhole covers, floor hatch circuitry according to specidications. R needed.	•	•
Rubber Dam Specification Items i-iv	Maintained the blower, filters, clamping necessary.	g bolts, deflation valves	, and drain line as
	ass Gates (where applicable)		
Specification	Maintained as needed electrical power	connections and mecha	nical aspects affiliated
Specification Items i-ii	Maintained as needed electrical power with the bypass gates.	connections and mecha	nical aspects affiliated
Items i-ii	with the bypass gates.		·
Items i-ii Electrical Overlo			·
Items i-ii	with the bypass gates. ad Breaker Box and Rubber Dam Control Maintained the control house electrical touchscreen, pressure gage system, leve	Panel and Appurtenanc overload breaker box, el monitoring system, to	es control panel, ransducers, sensors,
Items i-ii Electrical Overlo Specification items i-vi	with the bypass gates. ad Breaker Box and Rubber Dam Control Maintained the control house electrical touchscreen, pressure gage system, leve motor valves and programmable logic of	Panel and Appurtenanc overload breaker box, el monitoring system, to	es control panel, ransducers, sensors,
Items i-ii Electrical Overlo Specification items i-vi	with the bypass gates. ad Breaker Box and Rubber Dam Control Maintained the control house electrical touchscreen, pressure gage system, leve	Panel and Appurtenance overload breaker box, all monitoring system, to some ontroller according to some of	es control panel, ransducers, sensors, specifications. the automatic
Items i-ii Electrical Overlo Specification items i-vi Mechanical Auto Specification items i-ii	with the bypass gates. ad Breaker Box and Rubber Dam Control Maintained the control house electrical touchscreen, pressure gage system, leve motor valves and programmable logic comatic Deflation System Maintained the stilling well, bucket, val	Panel and Appurtenance overload breaker box, all monitoring system, to some ontroller according to some of	es control panel, ransducers, sensors, specifications. the automatic
Items i-ii Electrical Overlo Specification items i-vi Mechanical Auto Specification items i-ii	with the bypass gates. ad Breaker Box and Rubber Dam Control Maintained the control house electrical touchscreen, pressure gage system, lever motor valves and programmable logic comatic Deflation System Maintained the stilling well, bucket, valuechanical deflation system as needed	Panel and Appurtenance overload breaker box, all monitoring system, to ontroller according to see, and connections of according to specifications.	es control panel, ransducers, sensors, specifications. the automatic ons.
Items i-ii Electrical Overlo Specification items i-vi Mechanical Auto Specification items i-ii Conclusionary M Specification Item i	with the bypass gates. ad Breaker Box and Rubber Dam Control Maintained the control house electrical touchscreen, pressure gage system, lever motor valves and programmable logic comatic Deflation System Maintained the stilling well, bucket, valuechanical deflation system as needed Maintenance Operation	Panel and Appurtenance overload breaker box, all monitoring system, to ontroller according to see, and connections of according to specification after all maintenance.	es control panel, ransducers, sensors, specifications. the automatic ons.
Items i-ii Electrical Overlo Specification items i-vi Mechanical Auto Specification items i-ii Conclusionary M Specification Item i	with the bypass gates. ad Breaker Box and Rubber Dam Control Maintained the control house electrical touchscreen, pressure gage system, lever motor valves and programmable logic comatic Deflation System Maintained the stilling well, bucket, valuechanical deflation system as needed faintenance Operation The facility was tested for proper oper test taken while completing the items above	Panel and Appurtenance overload breaker box, all monitoring system, to ontroller according to see, and connections of according to specification after all maintenance:	control panel, ransducers, sensors, specifications. the automatic ons.
Items i-ii Electrical Overlo Specification items i-vi Mechanical Auto Specification items i-ii Conclusionary M Specification Item i	with the bypass gates. ad Breaker Box and Rubber Dam Control Maintained the control house electrical touchscreen, pressure gage system, lever motor valves and programmable logic comatic Deflation System Maintained the stilling well, bucket, valuechanical deflation system as needed Maintenance Operation The facility was tested for proper oper test taken while completing the items above Performed troubleshooting of the Control	Panel and Appurtenance overload breaker box, el monitoring system, to ontroller according to s ve, and connections of according to specification ation after all maintenance: roller PLC for minor ala	control panel, ransducers, sensors, specifications. the automatic ons.
Items i-ii Electrical Overlo Specification items i-vi Mechanical Auto Specification items i-ii Conclusionary M Specification Item i	with the bypass gates. ad Breaker Box and Rubber Dam Control Maintained the control house electrical touchscreen, pressure gage system, lever motor valves and programmable logic comatic Deflation System Maintained the stilling well, bucket, valuechanical deflation system as needed faintenance Operation The facility was tested for proper oper test taken while completing the items above	Panel and Appurtenance overload breaker box, el monitoring system, to ontroller according to s ve, and connections of according to specification ation after all maintenance: roller PLC for minor ala ed to maximize perform	control panel, ransducers, sensors, specifications. the automatic ons.
Items i-ii Electrical Overlo Specification items i-vi Mechanical Auto Specification items i-ii Conclusionary M Specification Item i Maintenance not 1 2	with the bypass gates. ad Breaker Box and Rubber Dam Control Maintained the control house electrical touchscreen, pressure gage system, lever motor valves and programmable logic comatic Deflation System Maintained the stilling well, bucket, valuation mechanical deflation system as needed faintenance Operation The facility was tested for proper oper ses taken while completing the items above Performed troubleshooting of the Contact The mechanical deflation bucket operation	Panel and Appurtenance overload breaker box, el monitoring system, to ontroller according to se ve, and connections of according to specification ation after all maintenance: roller PLC for minor all ed to maximize perform and operation.	control panel, ransducers, sensors, specifications. the automatic ons. nce work.
Items i-ii Electrical Overlo Specification items i-vi Mechanical Auto Specification items i-ii Conclusionary M Specification Item i Maintenance not 1 2 3	with the bypass gates. ad Breaker Box and Rubber Dam Control Maintained the control house electrical touchscreen, pressure gage system, lever motor valves and programmable logic comatic Deflation System Maintained the stilling well, bucket, valuechanical deflation system as needed Maintenance Operation The facility was tested for proper oper cestaken while completing the items above Performed troubleshooting of the Contact The mechanical deflation bucket operation cleaned off the touch screen and check	Panel and Appurtenance overload breaker box, el monitoring system, to ontroller according to se ve, and connections of according to specification ation after all maintenance: roller PLC for minor all ed to maximize perform and operation.	control panel, ransducers, sensors, specifications. the automatic ons. nce work.
Items i-ii Electrical Overlo Specification items i-vi Mechanical Auto Specification items i-ii Conclusionary M Specification Item i Maintenance not 1 2 3	with the bypass gates. ad Breaker Box and Rubber Dam Control Maintained the control house electrical touchscreen, pressure gage system, lever motor valves and programmable logic comatic Deflation System Maintained the stilling well, bucket, valuation mechanical deflation system as needed faintenance Operation The facility was tested for proper oper ses taken while completing the items above Performed troubleshooting of the Cont The mechanical deflation bucket operate Cleaned off the touch screen and check Monitored pressure transducer perform	Panel and Appurtenance overload breaker box, all monitoring system, to ontroller according to see, and connections of according to specification ation after all maintenance e: croller PLC for minor all ed to maximize perform ance to assure it was we	es control panel, ransducers, sensors, specifications. the automatic ons. nce work. arms found at site. nance.

(2) COMMENTS

8) SAN GABRIEL RIVER @ SLAUSON AVE. #4: 706-G1

Project Name	San Gabriel # 4 @ Slauson Ave.	No. 706-G1	SG-4_FINAL_RO
Size Owner	7.66' H x 200' L x 1/0.5 H LADPW	Maintenance Date	December 2013
Installation Date		Inspector	
Location	Replaced after March 2004		
Purpose	Los Angeles County, California, USA Groundwater Recharge	1	
(1) MAINTENA			
(I) PEMINIENA	INCE RESULI		
Rubber Dam maiı	ntenance was performed as necessary i	n accordance with the pro	iect
specifications:	,	•	•
Cantual Harra			
Control House	Maintain dunantala anno Garata	4-t	
Specification Items i-ii	Maintained manhole covers, floor ha	•	*
itenis i-n	circuitry according to specidications. needed.	Replaced any damaged c	or missing items as
Rubber Dam	needed.		
Specification	Maintained the blower, filters, clamp	ing bolts, deflation valves	. and drain line as
Items i-iv	necessary.	g 2 0.10, authaviori varvos	, and aram mic as
Rubber Dam Byp	ass Gates (where applicable)		
Specification	Maintained as needed electrical power	er connections and mecha	nical aspects affiliated
Items i-ii	with the bypass gates.		
Electrical Overloa	ad Breaker Box and Rubber Dam Contr	ol Panel and Appurtenanc	<u>es</u>
Specification			
items i-vi	Maintained the control house electric	cal overload breaker box,	control panel,
	touchscreen, pressure gage system, l	evel monitoring system, t	ransducers, sensors,
	motor valves and programmable logi	c controller according to s	specifications.
	matic Deflation System		
Specification	Maintained the stilling well, bucket,	•	
items i-ii	mechanical deflation system as neede	ed according to specificati	ons.
Conclusionary M	aintenance Operation		
Specification Iten	The facility was tested for proper op	peration after all maintena	ace work
i	The facility was tested for proper op	eration after all maintenal	ice work.
Maintenance not	es taken while completing the items ab	ove:	
1	Performed troubleshooting of the Co		arms found at site
2	The mechanical deflation bucket open		
3	Cleaned off the touch screen and che	•	
4	Monitored pressure transducer perfo		orking within operating
	operating range.		
5	Monitored level transducer performa	nce to assure it was work	ing within operating
	range.		
6)	Monitored status of aging Jamesbury	Valve. Valve failed.	

(2) COMMENTS

9) SAN GABRIEL RIVER NEAR TELEGRAPH AVE. #5: 676-F3

Project Name	San Gabriel # 5 @ Telegraph Rd.	No. 675-F3	SG-5_FINAL_RO
Size	6.0' H x 200' L x 1/0.5 H	Maintenance Date	December 2013
Owner	LADPW	Inspector	
Installation Date	Replaced 1999		
Location	Los Angeles County, California, USA		
Purpose (1) MAINTENA	Groundwater Recharge		
(I) MAINIENAI	NCE RESULI		
Rubber Dam main specifications:	tenance was performed as necessary ir	accordance with the pro	ject
Control House			
Specification Items i-ii	Maintained manhole covers, floor had circuitry according to specidications.	•	•
Dukkan Dam	needed.	. , ,	J
<u>Rubber Dam</u> Specification Items i-iv	Maintained the blower, filters, clampinecessary.	ing bolts, deflation valves	, and drain line as
Rubber Dam Bypa	ss Gates (where applicable)		
Specification Items i-ii	Maintained as needed electrical power with the bypass gates.	er connections and mecha	nical aspects affiliated
Electrical Overloa	d Breaker Box and Rubber Dam Contro	ol Panel and Appurtenanc	<u>es</u>
Specification items i-vi	Maintained the control house electric touchscreen, pressure gage system, le	evel monitoring system, t	ransducers, sensors,
Machanical Auton	motor valves and programmable logionatic Deflation System	. Controller according to s	specifications.
Specification items i-ii	Maintained the stilling well, bucket, we mechanical deflation system as neede		
Conclusionary Ma	aintenance Operation		
Specification Item		eration after all maintena	ice work.
Maintenance note	s taken while completing the items abo	ove:	
1	Performed troubleshooting of the Co		
2	The mechanical deflation bucket oper		nance.
3	Cleaned off the touch screen and che	•	
4	Monitored pressure transducer perfo	rmance to assure it was w	orking within operating
5	operating range. Monitored level transducer performa	nce to assure it was work	ing within operating
6)	range. Monitored status of aging Jamesbury	Valve. Valve failed.	

(2) COMMENTS General Comments - See MAINTENANCE গু REPAIR REPORT INTRODUCTION

10) SAN GABRIEL RIVER@ GOLDEN STATE FWY (I-5). #6: 706-F4

Project Name	San Gabriel # 6 @ Florence Ave.	No. 706-F4	SG-6_FINAL_R0
Size	6.0' H x 200' L x 1/0.5 H	Maintenance Date	December 2103
Owner	LADPW	Inspector	
Installation Date	Replaced 1999		
Location	Los Angeles County, California, USA		
Purpose	Groundwater Recharge		
(1) MAINTENA	NCE RESULT		
Rubber Dam mainspecifications:	ntenance was performed as necessary in	accordance with the pro	ject
Control House Specification Items i-ii	Maintained manhole covers, floor hat circuitry according to specidications. needed.		
Rubber Dam Specification Items i-iv	Maintained the blower, filters, clampinecessary.	ng bolts, deflation valves	, and drain line as
Rubber Dam Byp	ass Gates (where applicable)		
Specification Items i-ii	Maintained as needed electrical power with the bypass gates.	r connections and mecha	nical aspects affiliated
Electrical Overlo	ad Breaker Box and Rubber Dam Contro	ol Panel and Appurtenanc	<u>es</u>
Specification items i-vi <u>Mechanical Auto</u> Specification items i-ii	Maintained the control house electric touchscreen, pressure gage system, le motor valves and programmable logic matic Deflation System Maintained the stilling well, bucket, v mechanical deflation system as neede	evel monitoring system, to controller according to state	ransducers, sensors, specifications. the automatic
Conclusionary M	faintenance Operation		
Specification Iter i		eration after all maintena	nce work.
Maintenance not	es taken while completing the items abo	ove:	
1	Performed troubleshooting of the Co		arms found at site.
2	The mechanical deflation bucket oper		
	Cleaned off the touch screen and che	-	
3		-	vorking within operating
3 4	Monitored pressure transducer perfo operating range.	imance to assure it was v	romang mami operating
	Monitored pressure transducer performance operating range. Monitored level transducer performance.		

11) SAN GABRIEL RIVER@ FIRESTONE BLVD. #7: 706-D6

Project Name	San Gabriel # 7 @ Firestone Blvd.	No. 706-D6	SG-7_FINAL_R0
Size	6.0' H x 200' L x 1/0.5 H	Maintenance Date	December 2013
Owner	LADPW	Inspector	
nstallation Date	Replaced 1998		
Location	Los Angeles County, California, USA		
Purpose	Groundwater Recharge		
(1) MAINTENA	NCE RESULT		
Rubber Dam main specifications:	ntenance was performed as necessary in	accordance with the pro	ject
Control House Specification Items i-ii	Maintained manhole covers, floor hate circuitry according to specidications. needed.	_	
Rubber Dam Specification Items i-iv	Maintained the blower, filters, clampin necessary.	ng bolts, deflation valves	, and drain line as
Rubber Dam Byp	ass Gates (where applicable)		
Specification Items i-ii	Maintained as needed electrical power with the bypass gates.	connections and mecha	nical aspects affiliated
Electrical Overloa	ad Breaker Box and Rubber Dam Contro	I Panel and Appurtenanc	es
Specification			
items i-vi	Maintained the control house electricatouchscreen, pressure gage system, le motor valves and programmable logic	vel monitoring system, t	ransducers, sensors,
Mechanical Auto	matic Deflation System		,
Specification items i-ii	Maintained the stilling well, bucket, va mechanical deflation system as needed	•	
Conclusionary M	aintenance Operation		
Specification Iten		eration after all maintena	nce work.
Maintenance not	es taken while completing the items abo	·VΔ•	
1	Performed troubleshooting of the Co		arms found at site
2	The mechanical deflation bucket opera		
3	Cleaned off the touch screen and chec	•	iunce.
4	Monitored pressure transducer perfor	-	vorking within operation
·	operating range.	to doom o it field v	
	Monitored level transducer performan	ice to assure it was work	ing within operating
5	range.	ice to assure it was work	5 v operating

July 31, 2014

12) DDI-23 RIO HONDO SPREADING GROUNDS: 676-C7

Project Name	DDI-23 @ Rio Hondo SG	No. 676-C7	DDI-23_FINAL_R0	
Size	6.0' H x 25' L x 1/0.0 H	Maintenance Date	December 2013	
Owner	LADPW	Inspector		
Installation Date	Installed 1999			
Location	Los Angeles County, California, U	ISA		
Purpose	Groundwater Recharge			
(1) MAINTENA	NCE RESULT			
Rubber Dam mai specifications:	ntenance was performed as necessary	y in accordance with the pro	ject	
Control House Specification Items i-ii	Maintained manhole covers, floor hatches, minor electrical power, and control circuitry according to specidications. Replaced any damaged or missing items as needed.			
Rubber Dam Specification Items i-iv	Maintained the blower, filters, clamping bolts, deflation valves, and drain line as necessary.			
Rubber Dam Byp	ass Gates (where applicable)			
Specification Items i-ii	Maintained as needed electrical power connections and mechanical aspects affiliated with the bypass gates.			
Electrical Overlo	ad Breaker Box and Rubber Dam Coi	ntrol Panel and Appurtenanc	ces	
Specification items i-vi	Maintained the control house electouchscreen, pressure gage system motor valves and programmable lobatic Deflation System Maintained the stilling well, bucke mechanical deflation system as need	trical overload breaker box, n, level monitoring system, to ogic controller according to et, valve, and connections of	control panel, ransducers, sensors, specifications.	
Conclusionary M	laintenance Operation			
Specification Iter i		operation after all maintena	nce work.	
Maintenance not	tes taken while completing the items	above:		
1		Performed troubleshooting of the Controller PLC for minor alarms found at site.		
2	The mechanical deflation bucket operated to maximize performance.			
3	Cleaned off the touch screen and	checked operation.		
	Monitored pressure transducer performance to assure it was working within operating			
4	operating range.	mornance to assure it was v	,	

General Comments - See MAINTENANCE & REPAIR REPORT INTRODUCTION

(2) COMMENTS

13) CITRUS SPREADING GROUNDS: 599-B2

		INTENANCE REPORT	
Project Name	Citrus @ Citrus SG	No. 599-B2	CI_FINAL_R0
Size	6.0' H x 30' L x 1/0.0 H	Maintenance Date	December 2013
Owner	LADPW	Inspector	
Installation Date	Replaced after 3/2004		
Location	Los Angeles County, California,	USA	
Purpose	Groundwater Recharge		
(1) MAINTENA	NCE RESULT		
Pubber Dam mais	ntenance was performed as necessa	ary in accordance with the pro	niect
specifications:	iteliance was performed as necessor	ary in accordance with the pre	, icci
specifications.			
Control House			
Specification	Maintained manhole covers, floo	or hatches, minor electrical po	wer, and control
Items i-ii	circuitry according to specidicati	ons. Replaced any damaged o	or missing items as
	needed.		
<u>Rubber Dam</u>			
Specification	Maintained the blower, filters, c	lamping bolts, deflation valves	s, and drain line as
Items i-iv	necessary.		
Rubber Dam Byp.	ass Gates (where applicable)		
Specification	Maintained as needed electrical power connections and mechanical aspects affiliated		
Items i-ii	with the bypass gates.		
Electrical Overloa	ad Breaker Box and Rubber Dam C	ontrol Panel and Appurtenance	<u>ces</u>
Specification			
items i-vi	Maintained the control house el	ectrical overload breaker box,	control panel,
	touchscreen, pressure gage syste		
	motor valves and programmable	logic controller according to	specifications.
	matic Deflation System		
Specification	Maintained the stilling well, bucket, valve, and connections of the automatic		
items i-ii	mechanical deflation system as r	needed according to specificati	ions.
Conclusionary M	laintenance Operation		
Specification Iter	<u> </u>	ou operation after all maintena	maa wark
į	The facility was tested for prop	er operation after all maintena	ince work.
Maintenance not	es taken while completing the iten		
1	Performed troubleshooting of the		
2	The mechanical deflation bucket		nance.
3	Cleaned off the touch screen an	-	
4	Monitored pressure transducer	performance to assure it was v	working within operation
	operating range.		
a r	8 4 : 4 1 1 1 4 Jun and 1	announce to account it was well	

(2) COMMENTS

5

range.

General Comments - See MAINTENANCE & REPAIR REPORT INTRODUCTION

Monitored level transducer performance to assure it was working within operating

14) BEN LOMOND SPREADING GROUNDS: 599-C3

Project Name	Ben Lomond @ Ben Lomond SG	No. 599-C3	BL_DRAFT_RO
Size	6.0' H x 25' L x 1/0.0 H	Maintenance Date	December 2013
Owner	LADPW	Inspector	
Installation Date	Installed 1999		
Location	Los Angeles County, California, USA		
Purpose	Groundwater Recharge		
(1) MAINTENA	NCE RESULT		
Rubber Dam main specifications:	tenance was performed as necessary ir	accordance with the pro	ject
Control House Specification Items i-ii Rubber Dam	Maintained manhole covers, floor had circuitry according to specidications. needed.		
Specification Items i-iv	Maintained the blower, filters, clamping bolts, deflation valves, and drain line as necessary.		
<u>Rubber Dam Bypa</u>	ss Gates (where applicable)		
Specification Items i-ii	Maintained as needed electrical power connections and mechanical aspects affiliated with the bypass gates.		
Electrical Overloa	d Breaker Box and Rubber Dam Contro	ol Panel and Appurtenanc	<u>res</u>
Specification items i-vi <u>Mechanical Autor</u> Specification items i-ii	Maintained the control house electric touchscreen, pressure gage system, le motor valves and programmable logic matic Deflation System Maintained the stilling well, bucket, we mechanical deflation system as neede	evel monitoring system, to controller according to state	ransducers, sensors, specifications.
items i-n	mechanical denation system as neede	a according to specificati	ons.
	aintenance Operation		
Specification Item i	The facility was tested for proper op	eration after all maintena	nce work.
Maintenance note	es taken while completing the items abo	ove:	
1	Performed troubleshooting of the Controller PLC for minor alarms found at site.		
2	The mechanical deflation bucket operated to maximize performance.		
3	Cleaned off the touch screen and che	cked operation.	
4	Monitored pressure transducer perfo operating range.	rmance to assure it was w	vorking within operating
5	Monitored level transducer performa range.	nce to assure it was work	ing within operating
6	Monitor 3" long crack on underside a	nt right abutment. No cha	nge noted.

(2) COMMENTS

15) FORBES SPREADING GROUNDS: 599-H1

	KUBBEK DAM MA	INTENANCE REPORT	
Project Name	Forbes @ Forbes SG	No. 599-H1	FORBES_FINAL_RO
Size	6.83' H x L x 1/0.0 H	Maintenance Date	December 2013
Owner	LADPW	Inspector	
Installation Date	Installed		
Location	Los Angeles County, California,	USA	,
Purpose	Groundwater Recharge		
(1) MAINTENA	NCE RESULT		
Rubber Dam maii specifications:	ntenance was performed as necessa	ry in accordance with the pro	ject
Control House			
Specification Items i-ii	Maintained manhole covers, floor hatches, minor electrical power, and control circuitry according to specidications. Replaced any damaged or missing items as needed.		
Rubber Dam Specification Items i-iv	Maintained the blower, filters, clamping bolts, deflation valves, and drain line as necessary.		
Rubber Dam Byp	ass Gates (where applicable)		
Specification Items i-ii	Maintained as needed electrical pwith the bypass gates.	nower connections and mecha	nical aspects affiliated
Electrical Overloa	ad Breaker Box and Rubber Dam Co	ontrol Panel and Appurtenanc	<u>ces</u>
Specification items i-vi Mechanical Auto	Maintained the control house ele touchscreen, pressure gage syste motor valves and programmable matic Deflation System	m, level monitoring system, t	ransducers, sensors,
Specification items i-ii	Maintained the stilling well, buck mechanical deflation system as n		
Conclusionary M	aintenance Operation		
Specification Iten i		r operation after all maintena	nce work.
Maintenance not	es taken while completing the item		
Y-	Performed troubleshooting of th		
2	The mechanical deflation bucket		nance.
3	Cleaned off the touch screen and	-	
4	Monitored pressure transducer properating range.		
5	Monitored level transducer perfo	ormance to assure it was work	ing within operating

(2) COMMENTS

range.

16) WALNUT CREEK SPREADING GROUNDS: 599-D7

Project Name	Walnut Creek @ WC SG	No. 599-D7	WC FINAL RO
Size	2.5' H x 25' L x 1/0.0 H	Maintenance Date	December 2013
Owner	LADPW	Inspector	
Installation Date	Installed 1999	•	SAN SECTION SE
Location	Los Angeles County, California, U	SA	***************************************
Purpose	Groundwater Recharge		
(1) MAINTENA	NCE RESULT		
Rubber Dam main specifications:	tenance was performed as necessary	y in accordance with the pro	ject
Control House Specification Items i-ii	Maintained manhole covers, floor hatches, minor electrical power, and control circuitry according to specidications. Replaced any damaged or missing items as needed.		
Rubber Dam Specification Items i-iv	Maintained the blower, filters, clamping bolts, deflation valves, and drain line as necessary.		
<u>Rubber Dam Bypa</u>	ss Gates (where applicable)		
Specification Items i-ii	Maintained as needed electrical power connections and mechanical aspects affiliated with the bypass gates.		
Electrical Overloa	d Breaker Box and Rubber Dam Cor	ntrol Panel and Appurtenanc	<u>es</u>
Specification			
items i-vi	Maintained the control house electrical overload breaker box, control panel, touchscreen, pressure gage system, level monitoring system, transducers, sensors, motor valves and programmable logic controller according to specifications.		
Mechanical Autor	matic Deflation System	ogic controller according to t	specifications.
1 TCCHAITICAL 7 TATOL	Maintained the stilling well, bucket, valve, and connections of the automatic mechanical deflation system as needed according to specifications.		
Specification items i-ii			
items i-ii	mechanical deflation system as nee		
items i-ii Conclusionary M	mechanical deflation system as nee	eded according to specificati	ons.
items i-ii <u>Conclusionary Ma</u> Specification Item i	mechanical deflation system as nee aintenance Operation The facility was tested for proper	eded according to specificati operation after all maintena	ons.
items i-ii Conclusionary Ma Specification Item i Maintenance note	mechanical deflation system as nee aintenance Operation The facility was tested for proper es taken while completing the items	eded according to specificati operation after all maintenal	ons. nce work.
items i-ii Conclusionary Ma Specification Item i Maintenance note	mechanical deflation system as need an intendence Operation The facility was tested for proper es taken while completing the items. Performed troubleshooting of the	eded according to specificati operation after all maintenal above: Controller PLC for minor al	ons. nce work. arms found at site.
items i-ii Conclusionary M. Specification Item i Maintenance note 1 2	mechanical deflation system as need aintenance Operation The facility was tested for proper es taken while completing the items Performed troubleshooting of the The mechanical deflation bucket of	eded according to specificati operation after all maintenal above: Controller PLC for minor all perated to maximize perforn	ons. nce work. arms found at site.
items i-ii Conclusionary Ma Specification Item i Maintenance note	mechanical deflation system as need a intenance Operation The facility was tested for proper estaken while completing the items. Performed troubleshooting of the The mechanical deflation bucket of Cleaned off the touch screen and of Monitored pressure transducer per	eded according to specificati operation after all maintenal above: Controller PLC for minor all perated to maximize perforn checked operation.	ons. nce work. arms found at site. nance.
items i-ii Conclusionary Management i Maintenance note 1 2 3	mechanical deflation system as need a intenance Operation The facility was tested for proper estaken while completing the items. Performed troubleshooting of the The mechanical deflation bucket of Cleaned off the touch screen and other screen and other touch screen as need and the screen and other touch screen as need and the screen and other touch screen and oth	eded according to specification operation after all maintenand above: Controller PLC for minor allogerated to maximize perforn the checked operation. The character of the cha	ons. arms found at site. nance. vorking within operating

17) HANSEN SPREADING GROUNDS

Project Name	Hansen @ Hansen SG	No.	H_FINAL_RO
Size	\sim 7.0' H x \sim 60' L x VERTICAL WALLS	Maintenance Date	December 2013
Owner	LADPW	Inspector	
Installation Date	Installed 2012		
Location	Los Angeles County, California, USA		
Purpose	Groundwater Recharge		
(1) MAINTENAI	NCE RESULT		
Rubber Dam main specifications:	tenance was performed as necessary in ac	cordance with the pro	ject
Control House Specification Items i-ii	Maintained manhole covers, floor hatche circuitry according to specidications. Reneeded.	· ·	-
Rubber Dam Specification Items i-iv	Maintained the blower, filters, clamping necessary.	bolts, deflation valves,	, and drain line as
<u>Rubber Dam Bypa</u>	ss Gates (where applicable)		
Specification Items i-ii	Maintained as needed electrical power c with the bypass gates.	onnections and mecha	nical aspects affiliated
Electrical Overloa	d Breaker Box and Rubber Dam Control P	anel and Appurtenance	e <u>s</u>
Specification items i-vi	Maintained the control house electrical of touchscreen, pressure gage system, leve motor valves and programmable logic co	I monitoring system, tr	ansducers, sensors,
	natic Deflation System		
Specification items i-ii	Maintained the stilling well, bucket, valv mechanical deflation system as needed a	•	
Conclusionary Ma	aintenance Operation		
Specification Item i	The facility was tested for proper opera	tion after all maintenar	nce work.
Maintenance note	es taken while completing the items above	<u>:</u>	
1	Performed troubleshooting of the Contr	oller PLC for minor ala	arms found at site.
2	Cleaned off the touch screen and checke		
3	Monitored pressure transducer performa		orking within operating
	operating range.		
4	Monitored level transducer performance	to assure it was worki	ng within operating
	range.		
5	Cleaned air pressure regulator.		
Market and the second			

(2) COMMENTS

REPAIR REPORT NO. TLM 2012-1 REV 0 INCREASE IN NUMBER OF STATIONS TO BE INSPECTED AND MAINTAINED FROM 17 TO 19

Background

The Bridgestone Rubber Dam System Telemetry Component Maintenance Services contract listed 17 sites to be inspected and maintained in Tasks 1.0 and 2.0. The 16 LADPW Rubber Dam sites plus Rose Hills Repeater, Rio Hondo Headworks Repeater and LADPW Headquarters Base Station total 19 stations to be inspected and maintained. During the LADPW Headquarters part of the mandatory project walkthrough, A Thousand Hills pointed out this difference between the 17 station total and the actual 19 stations that need inspection and maintenance. The response from LADPW at that time was that the payment adjustment for the additional two sites would be made after award of the contract at the per station price quoted by the winning bidder.

Recommendation & Description of Repair

- 1) Continue to inspect all 19 stations.
- 2) Continue to maintain all 19 stations.

Estimated Cost

. Cost for work under this repair report to cover inspection and maintenance of two additional stations including, expenses, overhead & profit to accomplish the work listed as above is estimated as follows:

REPAIR REPORT NO. TLM 2012-1-- INCREASE IN NUMBER OF STATIONS TO BE INSPECTED AND MAINTAINED FROM 17 TO 19=

Estimated Time to Complete Work
Work to be completed by August 1st, 2013.

REPAIR REPORT NO. TLM 2012-2 REV 1 SOFTWARE FOR LADPW VIRTUAL WINDOWS SERVER 2008 R2

Background

In order to provide the ability to have multiple concurrent user access to the Rubber Dam graphic user interface a change in operating system is being made from the existing Windows XP Pro environment to a Virtual Windows Server 2008 R2 environment. A change has also been made under the Primary Rubber Dam Maintenance contract from the Siemens S7-200 PLC platform to the Siemens S7 1200 Platform. This Repair report replaces Tasks 3.1, 3.2 and 3.3 and provides the latest updates to software compatible for use in the Virtual Windows Server 2008 R2 environment in connection with the Siemens S71-200 PLCs and Siemens KTP600/1000 Touchscreens.

Recommendation & Description of Repair

Provide the following updated software to be compatible with Virtual Windows Server 2008 R2 and the Siemens S7-1200 PLC & KTP600/1000 HMI touchscreens.

- 1) KEPServer EX V 5.9.170.0 Communications Software w/1 year software warranty and maintenance for use in the Windows Virtual Server 2008 R2 environment w/Siemens S7-1200 PLCs. This item replaces Task 3.1.
- 2) KEPServerEX Siemens S7-200/S7-300/ S7-400/S7-1200 Ethernet OPC Server w/1 year software warranty and maintenance for use in the Windows Virtual Server 2008 R2 environment w/Siemens S7-1200 PLCs. This item replaces Task 3.3.
- 3) Siemens S7 Basic V11 SP2 UPD 4 w/1 year software warranty and maintenance for use in the Windows Virtual Server 2008 R2 environment w/Siemens S7-1200 PLCs and KTP600/1000 HMI touchscreens.

Estimated Cost

Estimated Time to Complete Work Work to be completed by December 1st, 2012.

REPAIR REPORT NO. TLM 2012-3 REV 0 ADD GPS TIMING TO 3 STATIONS (HQ, ROSE HILLS REPEATER, RIO HONDO REPEATER)

Background

The Bridgestone Rubber Dam System telemetry system consists of 16 LADPW Rubber Dam sites plus Rose Hills Repeater, Rio Hondo Headworks Repeater and LADPW Headquarters Base Station. Because the station to station communications are Ethernet radio precise timing is required at the base station and repeater sites to allow these sites to control network communications to avoid the radio frequency collisions that would otherwise occur. The potential for radio frequency collisions is made more likely by the plan to have the SGTS telemetry network use the same radio frequency as the Rubber Dam telemetry network. The satellite based GPS system provides GPS receivers not only position information but highly accurate time information. The most reliable and cost effective means of providing the time synchronization necessary for the Rubber Dam telemetry network is through the use of this timing aspect of the GPS system.

Recommendation & Description of Repair

1) Add GPS timing hardware, software and programming to the LADPW HQ, Rose Hills, Repeater and Rio Hondo Repeater sites.

Estimated Cost

Estimated Time to Complete Work
Work to be completed by August 1st, 2013.

REPAIR REPORT NO. TLM 2012-4 REV 2 REPAIR TELEMETRY WIRING DAMAGE DUE TO VANDALISM AT VALLEY 2

Background

On March 12th, 2013 vandalism damage to the interior of the control house at Valley 2 Rubber Dam was discovered. All copper wires larger than 1/16 in diameter had been cut. In addition, various telemetry electronic components as well as the coaxial antenna cable had been removed and cut. This repair report covers the repair of the telemetry wiring only.

Recommendation & Description of Repair

1) Repair the telemetry and PLC wiring damage at Valley 2. Replace missing wiring as needed within the Rubber Dam control panel and the coaxial cable between the control panel and the base of the antenna mast. Test all telemetry control & monitoring functions when repairs are complete.

Estimated Cost

Estimated Time to Complete Work
Work to be completed by August 2, 2013

REPAIR REPORT NO. TLM 2011-5 REV 0 DRAFT! PROGRAMMING FOR LADPW VIRTUAL WINDOWS SERVER 2008 R1

Background

In order to provide the ability to have multiple concurrent user access to the Rubber Dam graphic user interface a change in operating system is being made from the existing Windows XP Pro environment to a Virtual Windows Server 2008 R1 environment. A change has also been made under the Primary Rubber Dam Maintenance contract from the Siemens \$7-200 PLC platform to the Siemens \$7-1200 Plc platform.

Recommendation & Description of Repair

Provide programming of Wonderware/Intouch operator interface and KEPServerEX software to be compatible with Virtual Windows Server 2008 R1 and the Siemens S7-1200 PLC.

Estimated Time to Complete Work

Work to be completed by August 1, 2012

REPAIR REPORT NO. TLM 2012-6 REV 0 INTOUCH PROGRAM IMPROVEMENTS

Background

The Bridgestone Rubber Dam System telemetry system consists of 16 LADPW Rubber Dam sites plus Rose Hills Repeater, Rio Hondo Headworks Repeater and LADPW Headquarters Base Station. Data from each of the 16 sites passes through the OPC server KEPServerEX located on the Windows 2008 R2 Virtual Server located in the LADPW Annex. Control and monitoring of the 16 Rubber Dam sites is achieved through the use of Wonderware / Intouch operator interface software which used KEPServerEX datapoints. The existing Intouch application is ~12 years old and will benefit from improvements that reflect the expanded capabilities and increased speed of the upgraded PLC/radio network.

Recommendation & Description of Repair

1) Revise & modernize the Intouch operator interface on the Rubber Dam Virtual Server. .

Estimated Cost

Estimated Time to Complete Work
Work to be completed by August 1st, 2013.

REPAIR REPORT NO. TLM 2012-7 REV 0 PROGRAMMING FOR RADIO NETWORK AT 5 SITES

Background

Changes are required in the programming of the LADPW Rubber Dam telemetry network to reflect the change of radio frequency from 900 MHz Spread spectrum rardios to 412 MHz spread licenced frequency radios. Additional changes are required to allow the Rubber Dam telemetry network to work alongside other networks also using the 412 MHz frequency. These changes include provisions for "report by exception" transmissions, timed polling for all sites and provision for the incorporation of GPS timing. These changes require significant reprogramming of the PLC to PLC communications blocks and data transfer functions.

Recommendation & Description of Repair

Reprogram communications blocks and data transfer functions for S7-1200 PLCs at 5 sites. Program 412 MHz Ethernet Radios for PLC to PLC communications at 5 sites (sites include HQ, Rose Hills Repeater, Valley 1, Valley 2 & Valley 3).

Estimated Cost

Estimated Time to Complete Work

Work to be completed by August 1st, 2013.