

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log			
Site Name:	Carr St	Date:	18-Jun-09
Service Type:	Inspection	Technician:	DP
		Time:	9:30
		Status:	OK

Configuration Changes	
Part #	Location

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission				
Port	Time	Count	Measure	Predicted
100	9:38	243		0
100	9:39	244		0
100	9:39	245		0
100	9:40	246		0
103	9:34	1185	5.07 psi	1192
103	9:35	488	2.07 psi	493

Battery Tests		
Battery #	V Quiescent	V Load

Problem:

Action Taken: PT tests OK, good hydraulic contact. Topsection funnel partially plugged (slow), cleared, TB OK.

Site Notes:

Follow-Up:

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Service Log			
Site Name:	Croke Pump Stn	Date:	21-Jul-09
Time:	9:20		
Service Type:	OneRain Service Ca	Technician:	DP
Status:	OK		

Configuration Changes	
Part #	Location

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission					
Port	Time	Count	Measure	Predicted	
120	9:47	272			0
120	9:47	273			0
123	9:27	1027	5.04 psi		1019
123	9:28	425	2.09 psi		423

Battery Tests		
Battery #	V Quiescent	V Load

Problem: PT erratic.

Action Taken: PT tests OK, PT stable, sig con stable. Possibility of gate/control action on stream. Will monitor. TB OK.

Site Notes:

Follow-Up:

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Service Log

Site Name: **Croke Pump Stn** Date: **18-Jun-09** Time: **13:07**
 Service Type: **Inspection** Technician: **DP** Status: **OK**

Configuration Changes

Part #	Location

Transducer Calibration

Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance

Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance

Switches:
 Jumpers:
 Eprom:
 Tx Freq:
 Rx Freq:
 Fwd Power:
 Rev Power:
 SWR:

Test Transmission

Port	Time	Count	Measure	Predicted
120	13:27	231		0
120	13:27	232		0
123	13:18	1015	5.03 psi	1017
123	13:19	411	2.04 psi	412

Battery Tests

Battery #	V Quiescent	V Load

Problem:

Action Taken: PT tests OK, good hydraulic contact. TB OK. Changed radio to 169.500 Mhz.

Site Notes:**Follow-Up:**

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Service LogSite Name: **Simm St**Date: **18-Jun-09**Time: **10:21**Service Type: **Inspection**Technician: **DP**Status: **OK****Configuration Changes**

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Test Transmission

Port	Time	Count	Measure	Predicted
133	10:26	1058	5.13 psi	1068
133	10:27	416	2.01 psi	418

Battery Tests

Battery # V Quiescent V Load

Problem:**Action Taken:** PT tests OK, good hydraulic contact.**Site Notes:****Follow-Up:**

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Service Log			
Site Name:	Blue Mountain	Date:	02-Jul-09
Service Type:	Inspection	Technician:	DP
			Time: 12:04
			Status: OK

Configuration Changes	
Part #	Location
SW E2330001	140
SW C3540001	9000

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission				
Port	Time	Count	Measure	Predicted
140	12:23	192		0
140	12:23	193		0

Battery Tests		
Battery #	V Quiescent	V Load

Problem: Sonic wind sensor fails below freezing.

Action Taken: Replaced sonic wind sensor. @ 12:15 ID 141 raw = 62 => 62% RH, ID 142 raw = 105 => 65 deg.F, psychrometer readings Td = 65 deg.F, Tw = 57 deg.F implying RH = 64% and dp = 53 deg.F. TB OK.

Site Notes:

Follow-Up:

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Service Log			
Site Name:	Leyden Reservoir	Date:	19-Jun-09
Service Type:	OneRain Service Ca	Technician:	DP
			Time: 13:33
			Status: OK

Configuration Changes	
Part #	Location

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error
203	0.023	-0.2078	0.0565

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission				
Port	Time	Count	Measure	Predicted
200	14:18	186		0
203	14:09	1823	17.93 psi	1960
203	14:10	1432	14.00 psi	1530
203	14:11	1031	10.08 psi	1102
203	14:12	621	6.06 psi	662
203	14:13	212	2.00 psi	218
203	14:15	1087	10.62 psi	1084
203	14:16	418	4.07 psi	421

Battery Tests		
Battery #	V Quiescent	V Load

Problem: sig con bad.

Action Taken: Installed new sig con module and adjusted zero , span for 20 psi. range, repeatability OK, good hydraulic contact. TB OK
 {Auto Entry: Calibrated sensor 203 by linear regression. Modified calibration data. New calibration [Slope(0.0228), Calibration Offset(-0.2078), Std Error(0.0565), Calibration Date(6/19/2009 2:14:10 PM)]}.

Site Notes:

Follow-Up:

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Service Log			
Site Name:	Leyden Reservoir	Date:	18-Jun-09
Service Type:	Inspection	Technician:	DP
			Time: 11:18
			Status: PT Down

Configuration Changes	
Part #	Location

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission				
Port	Time	Count	Measure	Predicted
200	11:26	184		0
200	11:29	185		0

Battery Tests		
Battery #	V Quiescent	V Load

Problem:

Action Taken: PT tests high/erratic zero, signal conditioning bad, tried 2 spares (older), both bad. Will leave as rain only until replacement made. TB OK.Changed radio to 169.500 Mhz.

Site Notes:

Follow-Up:

MAINTENANCE RECORD
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Service LogSite Name: **Leyden Conf.**Date: **18-Jun-09**Time: **10:09**Service Type: **Inspection**Technician: **DP**Status: **OK****Configuration Changes**

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Test Transmission

Port	Time	Count	Measure	Predicted
210	10:16	215		0
210	10:19	216		0
213	10:13	1140	5.04 psi	1140
213	10:14	461	2.04 psi	461

Battery Tests

Battery # V Quiescent V Load

Problem:**Action Taken:** PT tests OK, good hydraulic contact. TB OK.**Site Notes:****Follow-Up:**

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Service Log			
Site Name:	Upper Leyden	Date:	18-Jun-09
Service Type:	Inspection	Technician:	DP
			Time: 12:51
			Status: OK

Configuration Changes	
Part #	Location

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission				
Port	Time	Count	Measure	Predicted
220	12:50	223		0
220	12:51	225		0

Battery Tests		
Battery #	V Quiescent	V Load

Problem:

Action Taken: TB OK. Changed radio to 169.500 Mhz.

Site Notes:

Follow-Up:

MAINTENANCE RECORD
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Service Log

Site Name: **Van Bibber Park** Date: **03-Aug-09** Time: **11:05**
 Service Type: **Inspection** Technician: **SB** Status: **OK**

Configuration Changes

Part #	Location
BY R 0903	300
BY R 0919	9000

Transducer Calibration

Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance

Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance

Switches: **0300-3-D**
 Jumpers:
 Eprom:
 Tx Freq: **169.525**
 Rx Freq:
 Fwd Power: **4.5**
 Rev Power: **0.1**
 SWR: **1.35**

Test Transmission

Port	Time	Count	Measure	Predicted
300	11:16	1		0
300	11:16	2		0

Battery Tests

Battery #	V Quiescent	V Load
BY R 0903	13.18	

Problem:

Action Taken: Replaced battery. Cleaned TB. RF OK. TB OK.

Site Notes:**Follow-Up:**

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Service LogSite Name: **Sports Complex**Date: **18-Jun-09**Time: **9:52**Service Type: **Inspection**Technician: **DP**Status: **OK****Configuration Changes**

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Test Transmission

Port	Time	Count	Measure	Predicted
320	9:57	236		0
320	9:58	237		0
323	9:55	1025	5.01 psi	1022
323	9:56	418	2.02 psi	412

Battery Tests

Battery # V Quiescent V Load

Problem:**Action Taken:** PT tests OK, good hydraulic contact. Topsection funnel restricted, cleared, TB OK.**Site Notes:****Follow-Up:**

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Service Log			
Site Name:	Van Bibber @ 93	Date:	18-Jun-09
Time:	13:46	Status:	OK
Service Type:	Inspection	Technician:	DP

Configuration Changes	
Part #	Location

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission					
Port	Time	Count	Measure	Predicted	
330	13:58	210		0	
330	13:58	211		0	
333	13:55	1028	5.05 psi	1036	
333	13:56	414	2.03 psi	426	

Battery Tests		
Battery #	V Quiescent	V Load

Problem:

Action Taken: PT tests OK, good hydraulic contact. TB OK.

Site Notes:

Follow-Up:

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Service LogSite Name: **Montview Park**Date: **25-Jun-09**Time: **11:37**Service Type: **Inspection**Technician: **DP**Status: **PT Down****Configuration Changes**

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Test Transmission

Port	Time	Count	Measure	Predicted
400	12:34	228		0
400	12:37	230		0
404	12:35	229		0

Battery Tests

Battery # V Quiescent V Load

Problem:**Action Taken:** PT is bad, non-linear, non-repeatable. Will leave as rain only until PT replacement. TB OK.**Site Notes:****Follow-Up:** Replace PT , remove jumper.

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Service Log			
Site Name:	Kelly Dam	Date:	18-Jun-09
Service Type:	OneRain Service Ca	Technician:	SB/MZ
			Time: 11:27
			Status: OK

Configuration Changes	
Part #	Location
TX J 27313	410
BY R 0208	410

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission				
Port	Time	Count	Measure	Predicted

Battery Tests		
Battery #	V Quiescent	V Load

Problem:

Action Taken: Replaced Tx & battery. Installed new antenna and polyphaser due to lightning. PT signal conditioning box appears to have sustained damage as well and needs replaced. Unable to verify PT functionality at this time.

Site Notes:

Follow-Up:

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Service Log			
Site Name:	Expo Park	Date:	22-Jun-09
Service Type:	Inspection	Technician:	DP
			Time: 12:49
			Status: OK

Configuration Changes	
Part #	Location

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission				
Port	Time	Count	Measure	Predicted
420	12:57	395		0
420	12:57	396		0
423	12:53	1169	5.09 psi	1168
423	12:54	467	2.03 psi	463

Battery Tests		
Battery #	V Quiescent	V Load

Problem:

Action Taken: PT tests OK, good hydraulic contact. TB OK.

Site Notes:

Follow-Up:

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Service Log

Site Name: **Utah Park** Date: **25-Jun-09** Time: **7:45**
 Service Type: **Installation** Technician: **SB/MZ** Status: **OK**

Configuration Changes

Part #	Location
TB J 04926	430
SP J 27226	430
PT D 2925768	430
BY R 0846	430

Transducer Calibration

Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance

Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance

Switches: **0430-00E**
 Jumpers: **C:J3,5 off**
 Eprom:
 Tx Freq: **169.525**
 Rx Freq:
 Fwd Power: **4.8**
 Rev Power: **0.1**
 SWR: **1.34**

Test Transmission

Port	Time	Count	Measure	Predicted

Battery Tests

Battery #	V Quiescent	V Load
BY R 0846	12.82	

Problem:

Action Taken: Installed new standpipe and conduit for PT. RF OK. TB OK. PT OK good hydraulic contact.
 Replaced desiccant.

Site Notes:

Follow-Up: get GPS coordinates

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Service LogSite Name: **Havana Park**Date: **22-Jun-09**Time: **13:08**Service Type: **Inspection**Technician: **DP**Status: **OK****Configuration Changes**

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Test Transmission

Port	Time	Count	Measure	Predicted
500	13:15	246		0
500	13:15	247		0
503	13:11	1042	5.02 psi	1058
503	13:12	449	2.06 psi	448

Battery Tests

Battery # V Quiescent V Load

Problem:**Action Taken:** PT tests OK, good hydraulic contact. TB OK.**Site Notes:****Follow-Up:**

MAINTENANCE RECORD
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Service Log			
Site Name:	Harvard Gulch Pk	Date:	24-Jul-09
Service Type:	Inspection	Technician:	DP
			Time: 13:29
			Status: OK

Configuration Changes	
Part #	Location

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission				
Port	Time	Count	Measure	Predicted
600	13:35	285		0
600	13:35	286		0
603	13:32	730	4.02 psi	729
603	13:33	371	2.05 psi	367

Battery Tests		
Battery #	V Quiescent	V Load

Problem:

Action Taken: PT tests OK, good hydraulic contact. TB OK.

Site Notes:

Follow-Up:

MAINTENANCE RECORD
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Service Log

Site Name: **Harvard/Jackson** Date: **24-Jul-09** Time: **13:46**
 Service Type: **Inspection** Technician: **DP** Status: **OK**

Configuration Changes

Part #	Location
BY R 0224	610

Transducer Calibration

Sensor ID	Slope	Calib Offset	Std Error
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Tx Maintenance

Part #	Ref V	Freq Err	Deviation	ROM Batt
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Settings and Performance

Switches:
 Jumpers:
 Eprom:
 Tx Freq:
 Rx Freq:
 Fwd Power:
 Rev Power:
 SWR:

Test Transmission

Port	Time	Count	Measure	Predicted
610	14:08	1		0
610	14:08	2		0
613	13:56	1146	5.04 psi	1152
613	13:57	458	2.05 psi	462

Battery Tests

Battery #	V Quiescent	V Load
BY R 0224	12.83	

Problem:

Action Taken: PT tests OK, good hydraulic contact after clearing intake. TB OK.

Site Notes:**Follow-Up:**

MAINTENANCE RECORD
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Service LogSite Name: **Temple Pond**Date: **16-Jul-09**Time: **13:18**Service Type: **Inspection**Technician: **DP**Status: **OK****Configuration Changes**

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Test Transmission

Port	Time	Count	Measure	Predicted
630	13:26	468		0
630	13:26	469		0
633	13:22	1152	4.93 psi	1143
633	13:23	494	2.08 psi	484

Battery Tests

Battery # V Quiescent V Load

Problem:**Action Taken:** PT tests OK, good hydraulic contact. TB OK.**Site Notes:****Follow-Up:**

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Service Log			
Site Name:	Goldsmith/E'man	Date:	16-Jul-09
Service Type:	Inspection	Technician:	DP
			Time: 13:36
			Status: OK

Configuration Changes	
Part #	Location

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission					
Port	Time	Count	Measure	Predicted	
640	13:42	305			0
640	13:43	306			0
643	13:39	1020	5.01 psi		1017
643	13:40	428	2.05 psi		419

Battery Tests		
Battery #	V Quiescent	V Load

Problem:

Action Taken: PT tests OK, good hydraulic contact. TB OK.

Site Notes:

Follow-Up:

MAINTENANCE RECORD
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Service LogSite Name: **Iliff Pond**Date: **16-Jul-09**Time: **13:51**Service Type: **Inspection**Technician: **DP**Status: **OK****Configuration Changes**

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Test Transmission

Port	Time	Count	Measure	Predicted
650	14:03	324		0
650	14:03	325		0
653	13:54	1100	5.00 psi	1102
653	13:55	437	2.02 psi	433
654	13:59	1165	5.10 psi	1174
654	14:00	472	2.05 psi	484

Battery Tests

Battery # V Quiescent V Load

Problem:**Action Taken:** Both PT's rest OK, good hydraulic contact. TB OK.**Site Notes:****Follow-Up:**

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Service Log			
Site Name:	Tollgate at 6th	Date:	18-Jun-09
Time:	10:54		
Service Type:	OneRain Service Ca	Technician:	SB/MZ
Status:	OK		

Configuration Changes	
Part #	Location

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission				
Port	Time	Count	Measure	Predicted

Battery Tests		
Battery #	V Quiescent	V Load

Problem:

Action Taken: Replaced bubbler line. Changed offset from 3.2 to 3.25ft. RF OK. Bubbler OK. Alert reading 3.81 feet, staff gage around 3.82, difficult to read due to leaning gage and debris/algae.

Site Notes:

Follow-Up:

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Service Log

Site Name: **Tollgate at 6th** Date: **22-Jun-09** Time: **12:01**
 Service Type: **Inspection** Technician: **DP** Status: **OK**

Configuration Changes

Part #	Location

Transducer Calibration

Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance

Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance

Switches:
 Jumpers:
 Eprom:
 Tx Freq:
 Rx Freq:
 Fwd Power:
 Rev Power:
 SWR:

Test Transmission

Port	Time	Count	Measure	Predicted
700	12:04	224		0
700	12:05	225		0

Battery Tests

Battery #	V Quiescent	V Load

Problem:

Action Taken: TB OK. @12:00 ID 703 read 3.81, staff gage read 3.85.

Site Notes:**Follow-Up:**

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Service Log			
Site Name:	Horseshoe Park	Date:	16-Jul-09
Service Type:	Inspection	Technician:	DP
			Time: 9:30
			Status: OK

Configuration Changes	
Part #	Location

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission					
Port	Time	Count	Measure	Predicted	
710	9:41	255		0	
710	9:42	256		0	
710	9:42	257		0	
713	9:35	1188	5.04 psi	1172	
713	9:36	490	2.06 psi	477	

Battery Tests		
Battery #	V Quiescent	V Load

Problem:

Action Taken: PT tests OK, good hydraulic contact. TB OK.

Site Notes:

Follow-Up:

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ONERAIN INCORPORATED

Service Log			
Site Name:	Confluence Pond	Date:	16-Jul-09
Service Type:	Inspection	Technician:	DP
		Time:	9:53
		Status:	OK

Configuration Changes	
Part #	Location

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission					
Port	Time	Count	Measure	Predicted	
720	10:07	220			0
722	10:09	221			0
723	9:57	972	4.95 psi		987
723	9:58	373	1.92 psi		390
724	10:03	1141	5.07 psi		1133
724	10:04	474	2.09 psi		479

Battery Tests		
Battery #	V Quiescent	V Load

Problem:

Action Taken: Both PT's rest OK, good hydraulic contact. TB OK.

Site Notes:

Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log			
Site Name:	No Name @ Quincy	Date:	16-Jul-09
Service Type:	Inspection	Technician:	DP
			Time: 10:44
			Status: OK

Configuration Changes	
Part #	Location

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission					
Port	Time	Count	Measure	Predicted	
730	10:51	239			0
730	10:51	240			0
733	10:48	1180	5.15 psi		1183
733	10:49	484	2.07 psi		473

Battery Tests		
Battery #	V Quiescent	V Load

Problem:

Action Taken: PT tests OK, good hydraulic contact. TB OK.

Site Notes:

Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log			
Site Name:	Smoky Hill	Date:	15-Jun-09
Service Type:	Service Call	Technician:	DP
		Time:	14:11
		Status:	OK

Configuration Changes	
Part #	Location
BY R 0637	740
BY R 0844	9000
BY R 0834	9000

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission				
Port	Time	Count	Measure	Predicted

Battery Tests		
Battery #	V Quiescent	V Load

Problem:

Action Taken: AC power was interrupted by shelving displacing the power cord at the outlet, had ECCV personnel correct problem. Replaced batteries, verified functioning.

Site Notes:

Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log			
Site Name:	Smoky Hill	Date:	17-Jun-09
Time:	11:50	Status:	OK
Service Type:	OneRain Service Ca	Technician:	DP

Configuration Changes	
Part #	Location

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission				
Port	Time	Count	Measure	Predicted

Battery Tests		
Battery #	V Quiescent	V Load

Problem:

Action Taken: Changed receive radio back to Ritron after squelch adjustment. Repeater functioning, will monitor site 700 performance.

Site Notes:

Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log			
Site Name:	Quincy Reservoir	Date:	17-Jul-09
Service Type:	Inspection	Technician:	DP
			Time: 11:14
			Status: OK

Configuration Changes	
Part #	Location

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission				
Port	Time	Count	Measure	Predicted
750	11:30	221		0
750	11:30	222		0

Battery Tests		
Battery #	V Quiescent	V Load

Problem:

Action Taken: @ 11:21 ID 751 raw = 155 => 37.9%, ID 752 raw = 267 => 78 deg.F, psychrometer readings Td = 78 deg.F, Tw = 62 deg.F implying RH = 42% and dp = 53 deg.F. Wind sensor rotating freely. TB OK.

Site Notes:

Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log			
Site Name:	Sable Ditch	Date:	22-Jun-09
Service Type:	Inspection	Technician:	DP
			Time: 11:04
			Status: OK

Configuration Changes	
Part #	Location

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission				
Port	Time	Count	Measure	Predicted
800	11:10	191		0
800	11:10	192		0
803	11:07	972	5.29 psi	979
803	11:08	366	2.06 psi	383

Battery Tests		
Battery #	V Quiescent	V Load

Problem:

Action Taken: PT tests OK, good hydraulic contact. TB OK.

Site Notes:

Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log			
Site Name:	Grandby Ditch	Date:	17-Jul-09
Service Type:	Installation	Technician:	SB/SP
			Time: 15:13
			Status: OK

Configuration Changes	
Part #	Location
PT D 2841958	810

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error
813	0.011	-0.1506	0.042

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission					
Port	Time	Count	Measure	Predicted	
813	15:22	1611	8.02 psi	1714	
813	15:23	1527	7.27 psi	1555	
813	15:23	1190	5.61 psi	1199	
813	15:23	916	4.29 psi	919	
813	15:24	476	2.24 psi	481	
813	15:25	38	0.28 psi	62	
813	15:26	1560	8.10 psi	1732	
813	15:26	1433	7.00 psi	1497	
813	15:26	1234	5.97 psi	1278	
813	15:27	765	3.61 psi	773	
813	15:27	503	2.37 psi	508	
813	15:27	299	1.42 psi	305	
813	15:28	1447	7.53 psi	1610	
813	15:28	1385	6.66 psi	1424	

Battery Tests		
Battery #	V Quiescent	V Load

Problem:

Action Taken: {Auto Entry: Calibrated sensor 813 by linear regression. Modified calibration data. New calibration [Slope(0.0112), Calibration Offset(-0.1506), Std Error(0.0420), Calibration Date(7/17/2009 3:29:28 PM)]}.

Dug new trench for PT. Cut existing conduit about 20 feet from standpipe. PT OK with good hydraulic contact. Replaced desiccant in PT box. Calibrated new PT.

Site Notes:

Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log			
Site Name:	ETG @ Buckley	Date:	16-Jul-09
Time:	9:12		
Service Type:	Inspection	Technician:	DP
Status:	OK		

Configuration Changes	
Part #	Location

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission					
Port	Time	Count	Measure	Predicted	
820	9:21	261		0	
820	9:21	262		0	
823	9:14	1043	5.07 psi	1054	
823	9:18	419	2.00 psi	416	

Battery Tests		
Battery #	V Quiescent	V Load

Problem:

Action Taken: PT tests OK, good hydraulic contact. TB OK.

Site Notes:

Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log			
Site Name:	Flying J	Date:	22-Jun-09
Service Type:	Inspection	Technician:	DP
		Time:	9:49
		Status:	OK

Configuration Changes	
Part #	Location
BY R 0423	850
BY R 0903	9000

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission				
Port	Time	Count	Measure	Predicted
850	10:10	1		0
850	10:13	2		0
853	10:02	1147	5.01 psi	1147
853	10:03	460	2.04 psi	462

Battery Tests		
Battery #	V Quiescent	V Load
BY R 0423	12.90	

Problem: Battery low.

Action Taken: Replaced battery. PT tests OK, conduit "pull 90" broken at riser, stabilized riser with hose clamps until repair can be made. TB OK.

Site Notes: Replace "pull 90" at riser, orient riser in lake.

Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log			
Site Name:	Sand Creek @ Colfax	Date:	22-Jun-09
		Time:	10:33
Service Type:	Inspection	Technician:	DP
		Status:	OK

Configuration Changes	
Part #	Location

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission					
Port	Time	Count	Measure	Predicted	
860	10:53	52			0
860	10:53	53			0
863	10:47	1026	5.02 psi		1019
863	10:48	457	2.07 psi		437

Battery Tests		
Battery #	V Quiescent	V Load

Problem: Stopped reporting 6/16/09.

Action Taken: Battery lead corroded, replaced. PT tests OK, marginal hydraulic contact (rebuilding later this year). TB OK.

Site Notes:

Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log			
Site Name:	Murphy Creek	Date:	16-Jul-09
Service Type:	Inspection	Technician:	DP
			Time: 10:24
			Status: OK

Configuration Changes	
Part #	Location

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission					
Port	Time	Count	Measure	Predicted	
870	10:33	295		0	
870	10:34	296		0	
870	10:34	297		0	
873	10:28	1156	5.00 psi	1165	
873	10:29	489	2.07 psi	489	

Battery Tests		
Battery #	V Quiescent	V Load

Problem:

Action Taken: PT tests OK, good hydraulic contact. TB OK.

Site Notes:

Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log			
Site Name:	Aurora Res Wx	Date:	10-Jun-09
Service Type:	OneRain Service Ca	Technician:	SB/MZ
		Time:	11:12
		Status:	OK

Configuration Changes	
Part #	Location
SWE2110001	900
SW Z2430001	9000

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission				
Port	Time	Count	Measure	Predicted

Battery Tests		
Battery #	V Quiescent	V Load

Problem:

Action Taken: Replaced the Vaisala sonic wind sensor. Original sensor was damaged in recent tornado and reading full scale. New sensor seems to be working fine. Continue to monitor.

Site Notes:

Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log			
Site Name:	Aurora Res Wx	Date:	17-Jul-09
Service Type:	Inspection	Technician:	DP
		Time:	10:38
		Status:	OK

Configuration Changes	
Part #	Location

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission				
Port	Time	Count	Measure	Predicted
900	10:52	102		0
900	10:53	103		0

Battery Tests		
Battery #	V Quiescent	V Load

Problem:

Action Taken: @ 10:46 ID 901 raw = 449 => 44.9% RH, ID 902 raw = 1146 => 74.6 deg.F, psychrometer readings Td = 76 deg.F, Tw = 62 deg.F implying RH = 47% and dp = 55 deg.F.
 TB OK.

Site Notes:

Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log			
Site Name:	Aurora Regional Pond	Date:	16-Jul-09
Service Type:	Inspection	Technician:	DP
			Time: 11:21
			Status: OK

Configuration Changes	
Part #	Location

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission					
Port	Time	Count	Measure	Predicted	
940	11:40	330			0
940	11:40	331			0
943	11:31	746	5.05 psi		760
943	11:32	303	2.09 psi		314

Battery Tests		
Battery #	V Quiescent	V Load

Problem:

Action Taken: PT tests OK, good hydraulic contact. TB OK. Measurement made from water surface to top of concrete outflow structure = 6 ft. 10 in., PT reading = 2.52 ft.

Site Notes:

Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log			
Site Name:	Piney Ck @ Liverpool	Date:	16-Jul-09
Time:	11:49		
Service Type:	Inspection	Technician:	DP
Status:	OK		

Configuration Changes	
Part #	Location

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission					
Port	Time	Count	Measure	Predicted	
950	11:58	317		0	
950	11:58	318		0	
953	11:53	750	5.01 psi	762	
953	11:54	309	2.07 psi	317	

Battery Tests		
Battery #	V Quiescent	V Load

Problem:

Action Taken: PT tests OK, good hydraulic contact. TB OK.

Site Notes:

Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service LogSite Name: **Maple Grove Res**Date: **21-Jul-09**Time: **10:07**Service Type: **Inspection**Technician: **DP**Status: **OK****Configuration Changes**

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Test Transmission

Port	Time	Count	Measure	Predicted
1000	10:15	315		0
1000	10:15	316		0
1003	10:11	1038	5.06 psi	1031
1003	10:12	427	2.08 psi	424

Battery Tests

Battery # V Quiescent V Load

Problem:**Action Taken:** PT tests OK, good hydraulic contact. TB OK.**Site Notes:****Follow-Up:**

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service LogSite Name: **Denver West**Date: **03-Aug-09**Time: **12:20**Service Type: **Inspection**Technician: **SB**Status: **OK****Configuration Changes**

Part #	Location
BY R 0834	1010
BY R 0917	9000

Transducer Calibration

Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance

Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and PerformanceSwitches: **1010-3-D**

Jumpers:

Eprom:

Tx Freq: **169.525**

Rx Freq:

Fwd Power: **4.6**Rev Power: **0.0**SWR: **1.1****Test Transmission**

Port	Time	Count	Measure	Predicted
1010	12:33	1		0
1010	12:33	2		0

Battery Tests

Battery #	V Quiescent	V Load
BY R 0834	13.06	

Problem:**Action Taken:** Replaced battery. Cleaned TB and funnel. TB OK. RF OK.**Site Notes:****Follow-Up:**

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log			
Site Name:	Nolte Pond	Date:	21-Jul-09
Service Type:	Inspection	Technician:	DP
			Time: 10:33
			Status: OK

Configuration Changes	
Part #	Location

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission					
Port	Time	Count	Measure	Predicted	
1023	10:37	1159	5.00 psi	1165	
1023	10:38	475	2.05 psi	476	

Battery Tests		
Battery #	V Quiescent	V Load

Problem:

Action Taken: PT tests OK, good hydraulic contact.

Site Notes:

Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service LogSite Name: **Lena @ Hwy 6**Date: **21-Jul-09**Time: **10:52**Service Type: **Inspection**Technician: **DP**Status: **OK****Configuration Changes**

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Test Transmission

Port	Time	Count	Measure	Predicted
1040	11:00	293		0
1040	11:02	294		0
1043	10:56	1052	5.04 psi	1049
1043	10:57	421	2.03 psi	417

Battery Tests

Battery # V Quiescent V Load

Problem:**Action Taken:** PT tests OK, good hydraulic contact. TB OK after clearing insects from funnel.**Site Notes:****Follow-Up:**

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service LogSite Name: **Fairgrounds**Date: **03-Aug-09**Time: **12:52**Service Type: **Inspection**Technician: **SB**Status: **OK****Configuration Changes**

Part #	Location
BY R 0345	1050
BY R 0918	9000

Transducer Calibration

Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance

Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance

Switches: **tx j 18536**
Jumpers:
Eprom:
Tx Freq: **169.525**
Rx Freq:
Fwd Power: **4.9**
Rev Power: **0.0**
SWR: **1.09**

Test Transmission

Port	Time	Count	Measure	Predicted
1050	12:58	1		0
1050	13:01	2		0
1050	13:02	3		0

Battery Tests

Battery #	V Quiescent	V Load
BY R 0345	12.85	

Problem:**Action Taken:** Replaced battery. Cleaned Funnel and TB. RF OK. TB OK.**Site Notes:****Follow-Up:**

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log

Site Name: L'ville Dwy "D"

Date: 06-Aug-09

Time: 10:04

Service Type: Inspection

Technician: DP

Status: OK

Configuration Changes

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Test Transmission

Port	Time	Count	Measure	Predicted
1100	10:20	302		0
1100	10:20	303		0
1103	10:14	1050	5.12 psi	1040
1103	10:15	418	2.01 psi	411

Battery Tests

Battery # V Quiescent V Load

Problem:**Action Taken:** PT tests OK, good hydraulic contact. Top section funnel plugged, cleared, TB OK.**Site Notes:****Follow-Up:**

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log			
Site Name:	Gunbarrel	Date:	06-Aug-09
Service Type:	Inspection	Technician:	DP
			Time: 11:11
			Status: OK

Configuration Changes	
Part #	Location

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission					
Port	Time	Count	Measure	Predicted	
1110	11:18	214			0
1110	11:18	215			0
1113	11:15	1086	5.27 psi		1089
1113	11:16	414	2.01 psi		417

Battery Tests		
Battery #	V Quiescent	V Load

Problem:

Action Taken: PT tests OK, good hydraulic contact. TB OK.

Site Notes:

Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log

Site Name: **Broomfield #3207** Date: **29-Jul-09** Time: **14:16**
 Service Type: **Inspection** Technician: **DP** Status: **OK**

Configuration Changes

Part #	Location

Transducer Calibration

Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance

Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance

Switches:
 Jumpers:
 Eprom:
 Tx Freq:
 Rx Freq:
 Fwd Power:
 Rev Power:
 SWR:

Test Transmission

Port	Time	Count	Measure	Predicted
1200	14:24	204		0
1200	14:28	205		0
1203	14:20	930	5.05 psi	929
1203	14:21	375	2.04 psi	374

Battery Tests

Battery #	V Quiescent	V Load

Problem:

Action Taken: PT tests OK, good hydraulic contact. Top section funnel plugged, cleared, TB OK.

Site Notes:**Follow-Up:**

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log			
Site Name:	Hidden Lake	Date:	29-Jul-09
Service Type:	Inspection	Technician:	DP
			Time: 12:44
			Status: OK

Configuration Changes	
Part #	Location

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error
1303	0.010	0.0369	0.0092

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission				
Port	Time	Count	Measure	Predicted
1300	13:05	211		0
1300	13:05	212		0
1303	12:55	2012	9.06 psi	2134
1303	12:56	1562	7.05 psi	1660
1303	12:57	1119	5.05 psi	1190
1303	12:57	674	3.05 psi	719
1303	12:57	236	1.08 psi	255
1303	12:58	1125	5.08 psi	1123
1303	12:59	448	2.03 psi	448

Battery Tests		
Battery #	V Quiescent	V Load

Problem:

Action Taken: PT tests low, zero point OK, recalibrated, repeatability OK, good hydraulic contact. TB OK.
 {Auto Entry: Calibrated sensor 1303 by linear regression. Modified calibration data. New calibration [Slope(0.0104), Calibration Offset(0.0369), Std Error(0.0092), Calibration Date(7/29/2009 12:58:08 PM)]}.

Site Notes:

Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log			
Site Name:	Little Dry Creek @ 64t	Date:	29-Jul-09
		Time:	12:23
Service Type:	Inspection	Technician:	DP
		Status:	OK

Configuration Changes	
Part #	Location

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission					
Port	Time	Count	Measure	Predicted	
1310	12:31	350			0
1310	12:32	351			0
1313	12:26	1025	5.09 psi		1035
1313	12:27	401	2.04 psi		412

Battery Tests		
Battery #	V Quiescent	V Load

Problem:

Action Taken: PT tests OK, good hydraulic contact. TB OK.

Site Notes:

Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log

Site Name: **SPR @Mausoleum** Date: **21-Jul-09** Time: **14:00**
Service Type: **OneRain Service Ca** Technician: **DP** Status: **OK**

Configuration Changes

Part #	Location
PT D 2680704	1320
PT D 1579804	9000

Transducer Calibration

Sensor ID	Slope	Calib Offset	Std Error
1323	0.01	0.7301	0.1759

Tx Maintenance

Part #	Ref V	Freq Err	Deviation	ROM Batt
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Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission

Port	Time	Count	Measure	Predicted
1320	14:34	289		0
1320	14:34	290		0
1323	14:23	1975	8.87 psi	1995
1323	14:24	1546	7.01 psi	1566
1323	14:25	1086	5.02 psi	1107
1323	14:26	630	3.05 psi	653
1323	14:27	170	1.05 psi	192
1323	14:29	1089	5.49 psi	1193
1323	14:30	394	2.03 psi	394

Battery Tests

Battery #	V Quiescent	V Load
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Problem: PT dead.

Action Taken: Pulled new PT and calibrated, repeatability OK, good hydraulic contact. TB OK.
{Auto Entry: Calibrated sensor 1323 by linear regression. Modified calibration data. New calibration [Slope(0.0100), Calibration Offset(0.7301), Std Error(0.1759), Calibration Date(7/21/2009 2:27:19 PM)]}.

Site Notes:

Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log			
Site Name:	SPR @Mausoleum	Date:	01-Jul-09
		Time:	8:34
Service Type:	OneRain Service Ca	Technician:	DP
		Status:	PT Down

Configuration Changes	
Part #	Location

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission				
Port	Time	Count	Measure	Predicted

Battery Tests		
Battery #	V Quiescent	V Load

Problem: PT erratic, over reporting.
Action Taken: PT is bad. Leave as rain only until replacement can be made.
Site Notes:
Follow-Up: Replace PT, remove jumper.

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log

Site Name: Sanderson Gulch

Date: 21-Jul-09

Time: 12:05

Service Type: Inspection

Technician: DP

Status: OK

Configuration Changes

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches: 1340

Jumpers:

Eprom: 9601-01-90 ver 3.9M

Tx Freq: 169.525

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Test Transmission

Port	Time	Count	Measure	Predicted
1340	12:11	170		0
1340	12:12	171		0
1343	12:08	472	5.08 psi	472
1343	12:09	194	2.07 psi	193

Battery Tests

Battery # V Quiescent V Load

Problem:**Action Taken:** PT tests OK, good hydraulic contact. TB OK.**Site Notes:****Follow-Up:**

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log

Site Name: **Chatfield Dam** Date: **23-Jul-09** Time: **14:18**
 Service Type: **OneRain Service Ca** Technician: **DP** Status: **OK**

Configuration Changes

Part #	Location
BY R 0805	1350
BY R 0848	9000

Transducer Calibration

Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance

Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance

Switches:
 Jumpers:
 Eprom:
 Tx Freq:
 Rx Freq:
 Fwd Power:
 Rev Power:
 SWR:

Test Transmission

Port	Time	Count	Measure	Predicted
1350	14:27	1		0
1350	14:28	2		0

Battery Tests

Battery #	V Quiescent	V Load
BY R 0805	12.95	

Problem: Not reporting.

Action Taken: Battery low, replaced. RF OK. TB OK.

Site Notes:

Follow-Up: Add solar.

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log			
Site Name:	Denver ZOO	Date:	10-Jun-09
Time:	10:57	Service Type:	OneRain Service Ca
Status:	OK	Technician:	SB/MZ

Configuration Changes	
Part #	Location
TX H 3104	1360
BY R 0832	1360

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance	
Switches:	1360
Jumpers:	
Eprom:	9601-01-90 Ver. 3.9M
Tx Freq:	169.525
Rx Freq:	
Fwd Power:	4.8
Rev Power:	0.0
SWR:	1.1

Test Transmission				
Port	Time	Count	Measure	Predicted

Battery Tests		
Battery #	V Quiescent	V Load
BY R 0832	13.04	

Problem:

Action Taken: Relocated standpipe to its new location. Installed Standpipe, TB, TXR, Desiccant, and Battery. Stand pipe fully operational. TB OK. TXR OK.

Site Notes:

Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log			
Site Name:	Ferril Lake	Date:	29-Jul-09
Service Type:	Inspection	Technician:	DP
		Time:	11:23
		Status:	Incomplete

Configuration Changes	
Part #	Location

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission				
Port	Time	Count	Measure	Predicted

Battery Tests		
Battery #	V Quiescent	V Load

Problem:

Action Taken: Unable to access, need contact info for key.

Site Notes: Contact Tom Blackman at Denver. 303-446-3610 to get through a gate then you would need to contact Juan Marsh ((303) 916-4525).

Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log			
Site Name:	Upper Sloan	Date:	21-Jul-09
Service Type:	Inspection	Technician:	DP
			Time: 11:20
			Status: OK

Configuration Changes	
Part #	Location

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission					
Port	Time	Count	Measure	Predicted	
1400	11:28	338		0	
1400	11:29	339		0	
1403	11:25	1134	5.14 psi	1131	
1403	11:26	459	2.07 psi	457	

Battery Tests		
Battery #	V Quiescent	V Load

Problem:

Action Taken: PT tests OK, good hydraulic contact. TB OK.

Site Notes:

Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log			
Site Name:	Diamond Hill	Date:	17-Jul-09
Service Type:	Inspection	Technician:	DP
		Time:	12:47
		Status:	OK

Configuration Changes	
Part #	Location

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission				
Port	Time	Count	Measure	Predicted
1420	13:01	592		0
1420	13:03	593		0

Battery Tests		
Battery #	V Quiescent	V Load

Problem:

Action Taken: @ 13:06 ID 1421 raw = 18 => 18% RH, ID 1422 raw = 130 =>90 deg.F, psychrometer readings Td = 90 deg.F, Tw = 62 deg.F implying RH = 21% and dp = 45 deg.F. Wind sensors rotating freely. TB OK.

Site Notes:

Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log			
Site Name:	Elbert Wx	Date:	17-Jul-09
Service Type:	Inspection	Technician:	DP
		Time:	9:27
		Status:	OK

Configuration Changes	
Part #	Location

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission				
Port	Time	Count	Measure	Predicted
1440	9:33	679		0
1440	9:33	680		0

Battery Tests		
Battery #	V Quiescent	V Load

Problem:

Action Taken: @ 9:31 ID 1441 raw = 46 => 46% RH, ID 1442 raw = 109 = 69 deg.F, psychrometer readings Td = 69 deg.F, Tw = 57 deg.F implying RH = 50% and dp = 50 deg.F. TB OK.

Site Notes:

Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log			
Site Name:	Urban Farm	Date:	25-Jun-09
Service Type:	Inspection	Technician:	DP
		Time:	11:15
		Status:	OK

Configuration Changes	
Part #	Location

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission				
Port	Time	Count	Measure	Predicted
1460	11:23	1155		0
1460	11:24	1156		0

Battery Tests		
Battery #	V Quiescent	V Load

Problem:

Action Taken: @ 11:19 ID 1461 raw = 329 => 32.9% RH, ID 1462 raw = 1241 => 84.1 deg.F, psychrometer readings Td = 84 deg.F, Tw = 65 deg.F implying RH = 38% and dp = 56 deg.F. TB OK. Wind sensor rotating freely.

Site Notes:

Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log			
Site Name:	DIA @ Third Creek	Date:	29-Jul-09
Time:	10:14		
Service Type:	Inspection	Technician:	DP
Status:	OK		

Configuration Changes	
Part #	Location

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission					
Port	Time	Count	Measure	Predicted	
1480	10:33	213			0
1480	10:33	215			0
1483	10:21	1021	5.07 psi		1001
1483	10:22	419	2.03 psi		402
1484	10:26	1036	5.07 psi		1034
1484	10:27	415	2.02 psi		413

Battery Tests		
Battery #	V Quiescent	V Load

Problem:

Action Taken: Both PT's rest OK, good hydraulic contact. TB OK.

Site Notes:

Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log

Site Name: Powers Park

Date: 24-Jul-09

Time: 11:46

Service Type: Inspection

Technician: DP

Status: OK

Configuration Changes

Part #	Location
BY R 0505	1500
BY R 0836	9000

Transducer Calibration

Sensor ID	Slope	Calib Offset	Std Error
1503	0.013	0.0064	0.0034

Tx Maintenance

Part #	Ref V	Freq Err	Deviation	ROM Batt
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Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Test Transmission

Port	Time	Count	Measure	Predicted
1500	12:28	1		0
1500	12:32	3		0
1503	12:05	1670	9.34 psi	1810
1503	12:06	1254	7.01 psi	1360
1503	12:07	903	5.05 psi	980
1503	12:08	548	3.07 psi	595
1503	12:09	193	1.08 psi	210
1503	12:10	906	5.09 psi	909
1503	12:16	368	2.06 psi	368

Battery Tests

Battery #	V Quiescent	V Load
BY R 0505	13.08	

Problem:

Action Taken: PT tests low, adjusted zero point and recalibrated, repeatability OK, good hydraulic contact. Replaced battery. TB OK.
 {Auto Entry: Calibrated sensor 1503 by linear regression. Modified calibration data. New calibration [Slope(0.0129), Calibration Offset(0.0064), Std Error(0.0034), Calibration Date(7/24/2009 12:09:35 PM)]}.

Site Notes:**Follow-Up:**

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service LogSite Name: **Marston Lake**Date: **19-Jun-09**Time: **10:42**Service Type: **Inspection**Technician: **DP**Status: **OK****Configuration Changes**

Part #	Location
PT D 1465540	1520
PT D 1522328	9000

Transducer Calibration

Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance

Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Test Transmission

Port	Time	Count	Measure	Predicted
1520	12:43	2047		0
1520	12:44	0		0
1523	12:29	1167	5.05 psi	1164
1523	12:30	480	2.09 psi	481

Battery Tests

Battery #	V Quiescent	V Load

Problem: PT erratic on daily cycles.**Action Taken:** PT appears to have vent tube issues. Replaced PT, calibrated and entered into CR10X, verified calibration repeatability. @ 12:32 ID 1521 raw = 614 => 30.70 % RH, ID 1522 raw = 1120 => 72 deg.F, psychrometer readings Td = 72 deg.F, Tw = 53 deg.F implying RH = 29 % and dp = 38 deg.F. TB OK.**Site Notes:** In CR10X slope is line 117, offset is line 138.**Follow-Up:** Install proper desiccant tube on vent tube.

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log			
Site Name:	Bear Creek @ Lowell	Date:	21-Jul-09
Service Type:	Inspection	Technician:	DP
		Time:	12:38
		Status:	OK

Configuration Changes	
Part #	Location

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission					
Port	Time	Count	Measure	Predicted	
1530	12:53	341		0	
1530	12:53	342		0	
1533	12:45	1148	5.13 psi	1134	
1533	12:46	447	2.08 psi	443	

Battery Tests		
Battery #	V Quiescent	V Load

Problem:

Action Taken: PT tests OK, good hydraulic contact. TB OK. @ 12:50 ID 1533 raw = 2.02 => 2.91, tape = 2.62, new State enc = 2.648. CDWR log from 6/29/09 @ 9:50 tape = 2.985, enc = 2.997. Site is not being repeated. RF OK. Antenna SWR= 1.02 (adjusted). Tried a spare txr. Will monitor.

Site Notes:

Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log			
Site Name:	Lakewood Gulch	Date:	21-Jul-09
Service Type:	Inspection	Technician:	DP
			Time: 11:45
			Status: OK

Configuration Changes	
Part #	Location

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission					
Port	Time	Count	Measure	Predicted	
1563	11:49	1019	5.10 psi	1024	
1563	11:50	407	2.03 psi	408	

Battery Tests		
Battery #	V Quiescent	V Load

Problem:

Action Taken: PT tests OK, good hydraulic contact.

Site Notes:

Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log			
Site Name:	Lakewood Gulch	Date:	23-Jul-09
Service Type:	OneRain Service Ca	Technician:	DP
		Time:	12:12
		Status:	OK

Configuration Changes	
Part #	Location
BY R 0842	1560
BY R 0911	9000

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission				
Port	Time	Count	Measure	Predicted

Battery Tests		
Battery #	V Quiescent	V Load
BY R 0842	12.93	

Problem: Battery low.

Action Taken: Replaced battery.

Site Notes:

Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log			
Site Name:	Holly Dam	Date:	16-Jul-09
Service Type:	Inspection	Time:	12:24
		Technician:	DP
		Status:	OK

Configuration Changes	
Part #	Location

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission					
Port	Time	Count	Measure	Predicted	
1613	12:30	1092	5.26 psi	1102	
1613	12:31	452	2.04 psi	438	

Battery Tests		
Battery #	V Quiescent	V Load

Problem:

Action Taken: PT tests OK, good hydraulic contact.

Site Notes:

Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service LogSite Name: **Slaughterhouse**Date: **24-Jul-09**Time: **12:47**Service Type: **Inspection**Technician: **DP**Status: **OK****Configuration Changes**

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Test Transmission

Port	Time	Count	Measure	Predicted
1620	12:53	256		0
1620	12:53	257		0
1623	12:49	1290	5.30 psi	1283
1623	12:50	500	2.07 psi	505

Battery Tests

Battery # V Quiescent V Load

Problem:**Action Taken:** PT tests OK, good hydraulic contact. TB OK.**Site Notes:****Follow-Up:**

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log			
Site Name:	S Platte @ Dart	Date:	17-Jul-09
Time:	12:08	Status:	OK
Service Type:	Inspection	Technician:	DP

Configuration Changes	
Part #	Location

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission				
Port	Time	Count	Measure	Predicted

Battery Tests		
Battery #	V Quiescent	V Load

Problem:

Action Taken: @ 12:12 ID 1629 raw = 9 => 1.85, tape = 1.70.

Site Notes:

Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log

Site Name: **SPR at Union Ave.** Date: **23-Jul-09** Time: **12:35**
 Service Type: **Service Call** Technician: **DP** Status: **OK**

Configuration Changes

Part #	Location
TX J 4523	1640
DL S 989387	1640
BY R 0912	1640
BY J 0905	1640

Transducer Calibration

Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance

Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance

Switches:
 Jumpers:
 Eprom:
 Tx Freq: **169.525**
 Rx Freq: **171.875**
 Fwd Power: **4.2**
 Rev Power: **0.1**
 SWR: **1.36**

Test Transmission

Port	Time	Count	Measure	Predicted
1640	13:30	5		0
1640	13:32	7		0

Battery Tests

Battery #	V Quiescent	V Load

Problem: USGS changes.

Action Taken: Reinstalled Sutron 8200 (from USGS), serial txr and connected to new USGS Satlink. Added 12 ah battery and reconnected wall wort. RF OK. TB OK.

Site Notes:

Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log			
Site Name:	SPR at 19th Street	Date:	17-Jul-09
Time:	12:34		
Service Type:	Inspection	Technician:	DP
Status:	OK		

Configuration Changes	
Part #	Location

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission				
Port	Time	Count	Measure	Predicted

Battery Tests		
Battery #	V Quiescent	V Load

Problem:

Action Taken: @ 12:37 ID 1649 raw = 342 => 3.39, tape = 3.32, enc = 3.32.

Site Notes:

Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log			
Site Name:	SPR at Henderson	Date:	17-Jun-09
Service Type:	Inspection	Technician:	DP
			Time: 13:40
			Status: OK

Configuration Changes	
Part #	Location

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission				
Port	Time	Count	Measure	Predicted
1660	13:45	195		0
1660	13:45	196		0

Battery Tests		
Battery #	V Quiescent	V Load

Problem: Poor performance of rain for last event.

Action Taken: TB clean and level, funnels clean, TB OK. @ 13:44 ID 1659 raw = 6.09 => 6.09, tape = 6.20, enc = 6.20.

Site Notes:

Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log

Site Name: **SPR at Henderson** Date: **25-Jun-09** Time: **10:06**
 Service Type: **OneRain Service Ca** Technician: **DP** Status: **OK**

Configuration Changes

Part #	Location

Transducer Calibration

Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance

Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance

Switches:
 Jumpers: **JB1&4 off, JB2&3 on**
 Eprom:
 Tx Freq: **169.525**
 Rx Freq:
 Fwd Power: **4.5**
 Rev Power: **0.0**
 SWR: **1.1**

Test Transmission

Port	Time	Count	Measure	Predicted

Battery Tests

Battery #	V Quiescent	V Load

Problem: Rain and battery reports missing 1 week.

Action Taken: Radio output stage dead, replaced, RF OK. Cycled power and reset shaft encoder to current level. TB OK. Verified reception at base.

Site Notes: Use of reset button resets shaft encoder to 0.

Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log

Site Name: **Cherry Ck @ Champa** Date: **21-Jul-09** Time: **11:20**
 Service Type: **Installation** Technician: **MZ** Status: **OK**

Configuration Changes

Part #	Location
TX J 5537	9000

Transducer Calibration

Sensor ID	Slope	Calib Offset	Std Error
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Tx Maintenance

Part #	Ref V	Freq Err	Deviation	ROM Batt
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Settings and Performance

Switches:
 Jumpers:
 Eprom:
 Tx Freq:
 Rx Freq:
 Fwd Power:
 Rev Power:
 SWR:

Test Transmission

Port	Time	Count	Measure	Predicted
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Battery Tests

Battery #	V Quiescent	V Load
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Problem:

Action Taken: Re-installed Sutron 8200 with new Tiny Basic program. Re-installed CommEngine transmitter.

Site Notes:**Follow-Up:**

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service LogSite Name: **Cherry Ck/Steele**Date: **29-Jul-09**Time: **11:34**Service Type: **Inspection**Technician: **DP**Status: **OK****Configuration Changes**

Part #	Location

Transducer Calibration

Sensor ID	Slope	Calib Offset	Std Error
1723	0.013	-0.0804	0.0219

Tx Maintenance

Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Test Transmission

Port	Time	Count	Measure	Predicted
1720	11:52	310		0
1720	11:53	311		0
1723	11:41	1598	9.05 psi	1701
1723	11:42	1235	7.02 psi	1319
1723	11:43	884	5.01 psi	942
1723	11:44	538	3.02 psi	571
1723	11:45	192	1.06 psi	202
1723	11:46	897	5.00 psi	887
1723	11:47	358	2.00 psi	358

Battery Tests

Battery #	V Quiescent	V Load

Problem:

Action Taken: PT tests low, zero point OK, recalibrated, repeatability OK, good hydraulic contact. TB funnel plugged, cleared, OK.

{Auto Entry: Calibrated sensor 1723 by linear regression. Modified calibration data. New calibration [Slope(0.0131), Calibration Offset(-0.0804), Std Error(0.0219), Calibration Date(7/29/2009 11:45:37 AM)]}.

Site Notes:**Follow-Up:**

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log

Site Name: Sand Creek Park

Date: 22-Jun-09

Time: 11:18

Service Type: Inspection

Technician: DP

Status: OK

Configuration Changes

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Test Transmission

Port	Time	Count	Measure	Predicted
1800	11:47	214		0
1800	11:47	215		0
1803	11:36	1038	5.07 psi	1033
1803	11:37	421	2.02 psi	411

Battery Tests

Battery # V Quiescent V Load

Problem:**Action Taken:** PT tests low, adjusted zero point, OK, good hydraulic contact. TB OK.**Site Notes:****Follow-Up:**

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log

Site Name: **Sand Creek Mouth** Date: **04-Aug-09** Time: **8:55**
Service Type: **Inspection** Technician: **DP** Status: **OK**

Configuration Changes

Part #	Location

Transducer Calibration

Sensor ID	Slope	Calib Offset	Std Error
1813	0.011	-0.0336	0.0082

Tx Maintenance

Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance

Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission

Port	Time	Count	Measure	Predicted
1810	9:13	57		0
1810	9:14	58		0
1813	9:04	1867	8.96 psi	231
1813	9:07	1496	7.13 psi	184
1813	9:08	1074	5.09 psi	131
1813	9:09	652	3.02 psi	78
1813	9:10	244	1.06 psi	28
1813	9:11	1146	5.42 psi	1146
1813	9:12	425	1.95 psi	431
1813	9:29	31		0
1813	9:40	1911	9.30 psi	1944
1813	9:41	1442	7.01 psi	1473
1813	9:42	1037	5.04 psi	1067
1813	9:43	602	2.92 psi	630

Battery Tests

Battery #	V Quiescent	V Load

Problem:

Action Taken: Calibrated PT (not in data base) good hydraulic contact. Tightened wires on sig con. TB OK.
Dug out staff gage, reads 3.70 ft @ 9:30 AM. ID 1813 raw = 36 => .37 ft.

{Auto Entry: Calibrated sensor 1813 by linear regression. Modified calibration data. New calibration [Slope(0.0112), Calibration Offset(-0.0336), Std Error(0.0082), Calibration Date(8/4/2009 9:44:42 AM)].}

Site Notes:**Follow-Up:**

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log

Site Name: **Sand Creek Mouth** Date: **25-Jun-09** Time: **14:50**
 Service Type: **Installation** Technician: **SB/MZ** Status: **OK**

Configuration Changes

Part #	Location
TX J 27467	1810
SP J 27222	1810
PT D 2925769	1810
BY R 0948	1810
TX J 4523	9000
BY J 0905	9000
BY J 0701	9000

Transducer Calibration

Sensor ID	Slope	Calib Offset	Std Error
1813	0.011	-0.0169	0.0063

Tx Maintenance

Part #	Ref V	Freq Err	Deviation	ROM Batt
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Settings and Performance

Switches:
 Jumpers: **3 and 5 off**
 Eprom:
 Tx Freq: **169.525**
 Rx Freq:
 Fwd Power: **4.7**
 Rev Power: **0.1**
 SWR: **1.34**

Test Transmission

Port	Time	Count	Measure	Predicted
1810	15:38	1		0
1810	15:39	2		0
1813	15:31	1630	7.95 psi	205
1813	15:32	1333	6.49 psi	167
1813	15:32	1068	5.20 psi	134
1813	15:33	724	3.52 psi	91
1813	15:34	435	2.12 psi	55
1813	15:34	1	0.00 psi	1

Battery Tests

Battery #	V Quiescent	V Load
BY R 0948	13.03	

Problem:

Action Taken: Installed conduit from USGS hut to Sand Creek. Spliced in with their existing 8 feet of conduit into the hut. Installed solar and calibrated PT. PT OK with good hydraulic contact. RF OK. TB OK.

{Auto Entry: Calibrated sensor 1813 by linear regression. Modified calibration data. New calibration [Slope(0.0113), Calibration Offset(-0.0169), Std Error(0.0063), Calibration Date(6/25/2009 3:34:47 PM)]}.

Site Notes: 35.5" from bottom of riser to top of riser. subtract 1" for pt nose cone =34.5"

Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log			
Site Name:	Niver Detention	Date:	29-Jul-09
Service Type:	Inspection	Technician:	DP
			Time: 13:37
			Status: OK

Configuration Changes	
Part #	Location

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission				
Port	Time	Count	Measure	Predicted
1900	13:46	221		0
1900	13:46	222		0
1900	13:47	223		0
1903	13:40	976	5.36 psi	973
1903	13:41	374	2.04 psi	375

Battery Tests		
Battery #	V Quiescent	V Load

Problem:

Action Taken: PT tests OK, good hydraulic contact. Top section funnel plugged, cleared, TB OK.

Site Notes:

Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log			
Site Name:	Brighton	Date:	17-Jun-09
Service Type:	Inspection	Technician:	DP
		Time:	14:01
		Status:	OK

Configuration Changes	
Part #	Location

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission				
Port	Time	Count	Measure	Predicted
1920	14:08	747		0
1920	14:10	748		0

Battery Tests		
Battery #	V Quiescent	V Load

Problem:

Action Taken: @ 14:02 ID 1921 raw = 119 =>46.67 % RH, ID 1922 raw 161 => 81 deg.F, psychrometer readings Td = 81 deg.F, Tw = 66 deg.F implying RH = 47 % and dp = 59 deg.F. TB OK. Wind sensors rotating freely.

Site Notes:

Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log			
Site Name:	Squaw Mountain	Date:	09-Jul-09
Service Type:	Inspection	Technician:	DP
			Time: 11:05
			Status: OK

Configuration Changes	
Part #	Location
BY R 0636	2190

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance	
Switches:	
Jumpers:	
Eprom:	
Tx Freq:	169.525
Rx Freq:	
Fwd Power:	4.8
Rev Power:	0.0
SWR:	1.1

Test Transmission				
Port	Time	Count	Measure	Predicted
2190	11:47	456		0
2190	11:48	457		0

Battery Tests		
Battery #	V Quiescent	V Load
BY R 0636	12.68	

Problem:

Action Taken: Replaced battery and desiccant in trx. RF OK. Solar OK. TB OK. @ 11:54 ID 2191 raw = 39 => 39% RH, ID 2192 raw = 103 => 63 deg.F, psychrometer readings Td = 64 deg.F, Tw = 48 deg.F implying RH = 33% and dp = 35 deg.F.

Site Notes:

Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log			
Site Name:	Hiwan	Date:	09-Jul-09
Service Type:	Inspection	Technician:	DP
			Time: 12:56
			Status: OK

Configuration Changes	
Part #	Location

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance	
Switches:	
Jumpers:	
Eprom:	
Tx Freq:	169.525
Rx Freq:	
Fwd Power:	4.7
Rev Power:	0.0
SWR:	1.1

Test Transmission				
Port	Time	Count	Measure	Predicted
2210	14:03	557		0
2210	14:03	558		0

Battery Tests		
Battery #	V Quiescent	V Load

Problem:

Action Taken: Attempted to install replacement txr, no data for temp or fuel temp. will check programming. Left original txr on site. TB OK. Solar OK. RF OK. Wind sensors rotating freely. AT/RH OK.

Site Notes:

Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service LogSite Name: **Hiwan**Date: **06-Aug-09**Time: **13:47**Service Type: **Inspection**Technician: **SB**Status: **OK****Configuration Changes**

Part #	Location
DL CS 13672	2210
BY R 0844	2210
TX H 3455	9000
BY H 0011	9000

Transducer Calibration

Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance

Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Test Transmission

Port	Time	Count	Measure	Predicted

Battery Tests

Battery #	V Quiescent	V Load
BY R 0844	12.85	

Problem:

Action Taken: Replaced TXR with CR 1000, Comm Engine and Radio. Replaced Battery and Dessicant. Pyschrometer reading 34% gage reading 32%. RF OK. TB OK. FM OK.

CR 1000 - 13672

CE - F007

Site Notes:**Follow-Up:**

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service LogSite Name: **Evergreen Lake**Date: **10-Aug-09**Time: **11:35**Service Type: **Inspection**Technician: **DP**Status: **OK****Configuration Changes**

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Test Transmission

Port	Time	Count	Measure	Predicted
2223	11:40	1113	5.00 psi	1119
2223	11:41	453	2.02 psi	457

Battery Tests

Battery # V Quiescent V Load

Problem:**Action Taken:** PT tests OK, good hydraulic contact.**Site Notes:****Follow-Up:**

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log			
Site Name:	Bear Creek @ Cub	Date:	10-Aug-09
Time:	11:25	Status:	OK
Service Type:	Inspection	Technician:	DP

Configuration Changes	
Part #	Location

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission					
Port	Time	Count	Measure	Predicted	
2233	11:28	1127	5.09 psi	1121	
2233	11:29	495	2.04 psi	486	

Battery Tests		
Battery #	V Quiescent	V Load

Problem:

Action Taken: PT tests OK, good hydraulic contact. TB OK.

Site Notes:

Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log

Site Name: Cold Spring Glch

Date: 10-Aug-09

Time: 12:35

Service Type: Inspection

Technician: DP

Status: OK

Configuration Changes

Part #	Location
BY R 0845	2240
BY R 0312	9000

Transducer Calibration

Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance

Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Test Transmission

Port	Time	Count	Measure	Predicted
2243	12:53	1088	5.27 psi	1087
2243	12:54	418	2.06 psi	427

Battery Tests

Battery #	V Quiescent	V Load
BY R 0845	12.97	

Problem:**Action Taken:** PT tests OK, good hydraulic contact. TB OK. Replaced battery.**Site Notes:****Follow-Up:**

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service LogSite Name: **Rosedale**Date: **10-Aug-09**Time: **10:59**Service Type: **Inspection**Technician: **DP**Status: **OK****Configuration Changes**

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Test Transmission

Port	Time	Count	Measure	Predicted
2250	11:05	329		0
2250	11:05	330		0
2253	11:02	1086	5.16 psi	1082
2253	11:03	434	2.01 psi	434

Battery Tests

Battery # V Quiescent V Load

Problem:**Action Taken:** PT tests OK, fair hydraulic contact. TB OK.**Site Notes:****Follow-Up:**

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log

Site Name: **Cub Ck below Blue** Date: **10-Aug-09** Time: **11:54**
 Service Type: **Inspection** Technician: **DP** Status: **OK**

Configuration Changes

Part #	Location

Transducer Calibration

Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance

Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Test Transmission

Port	Time	Count	Measure	Predicted
2270	12:03	55		0
2270	12:03	56		0
2273	11:57	1034	5.04 psi	1040
2273	11:58	424	2.06 psi	426

Battery Tests

Battery #	V Quiescent	V Load

Problem:**Action Taken:** PT tests OK, good hydraulic contact. TB OK.**Site Notes:****Follow-Up:**

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log			
Site Name:	Cub Ck below Blue	Date:	09-Jul-09
		Time:	14:23
Service Type:	OneRain Service Ca	Technician:	DP
		Status:	OK

Configuration Changes	
Part #	Location

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission				
Port	Time	Count	Measure	Predicted
2270	14:33	1		0
2270	14:33	2		0
2270	14:34	3		0

Battery Tests		
Battery #	V Quiescent	V Load

Problem: Quit reporting.

Action Taken: RF OK. TB OK. Unknown problem, will check repeaters.

Site Notes:

Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log			
Site Name:	Choke Cherry Res	Date:	07-Aug-09
Service Type:	OneRain Service Ca	Technician:	DP
		Time:	13:40
		Status:	OK

Configuration Changes	
Part #	Location
RP N 2069	2320
BY R 0911	2320
RP N 2066	9000
BY K 0810	9000

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission				
Port	Time	Count	Measure	Predicted
2320	14:33	35		0
2320	14:34	36		0
2320	14:35	37		0

Battery Tests		
Battery #	V Quiescent	V Load

Problem:

Action Taken: Replaced rptr with duplex spare, added cavity filter on receive antenna. Replaced TX radio. Adjusted TB, OK.

Site Notes:

Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log			
Site Name:	Choke Cherry Res	Date:	10-Jul-09
		Time:	9:48
Service Type:	OneRain Service Ca	Technician:	DP
		Status:	OK

Configuration Changes	
Part #	Location

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission				
Port	Time	Count	Measure	Predicted
2320	10:20	1		0
2320	10:21	2		0

Battery Tests		
Battery #	V Quiescent	V Load

Problem: Was not passing 2270-2275.

Action Taken: Apparent corruption of programming. Also noted a previous outage on 6/4-7/09. Cycled power and reprogrammed, now passing 2270-2275. Solar OK. TB OK.

Site Notes: 796 key, large Master # 27 lock.

Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log			
Site Name:	Choke Cherry Res	Date:	15-Jul-09
Service Type:	OneRain Service Ca	Technician:	DP
		Time:	11:01
		Status:	OK

Configuration Changes	
Part #	Location

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission				
Port	Time	Count	Measure	Predicted
2320	12:22	7		0
2320	12:27	8		0

Battery Tests		
Battery #	V Quiescent	V Load

Problem:

Action Taken: Receiver test - 12 db sinad @ -109 db, squelch @ -114/-112 db. Discovered heavy RF interference from 174 MHz to 180 MHz which is keeping the radio in open squelch and causing problems for the rptr. TB OK.

Site Notes:

Follow-Up: Try installing a filter- (crystal).

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log			
Site Name:	Choke Cherry Res	Date:	28-Jul-09
Time:	10:42		
Service Type:	OneRain Service Ca	Technician:	DP
Status:	OK		

Configuration Changes	
Part #	Location

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission				
Port	Time	Count	Measure	Predicted
2320	13:19	1		0
2320	13:19	2		0

Battery Tests		
Battery #	V Quiescent	V Load

Problem:

Action Taken: Installed new modem board, ALERT led (carrier detect indicator) is now off, was on continuous before. Repeater appears to be working normally. Will monitor performance.

Site Notes:

Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log			
Site Name:	Morrison	Date:	10-Aug-09
Service Type:	Inspection	Technician:	DP
			Time: 13:14
			Status: OK

Configuration Changes	
Part #	Location

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission					
Port	Time	Count	Measure	Predicted	
2330	13:29	478			0
2330	13:30	479			0
2333	13:23	1171	5.03 psi		1172
2333	13:24	478	2.04 psi		475

Battery Tests		
Battery #	V Quiescent	V Load

Problem:

Action Taken: PT tests OK, good hydraulic contact. TB OK. @ 13:26 ID 2333 raw = 319 => 5.97, enc = 5.968.CDWR log from 8/5/09 @ 8:57 tape, enc and pen = 6.13.

Site Notes:

Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service LogSite Name: **Red Rocks**Date: **10-Aug-09**Time: **13:36**Service Type: **Inspection**Technician: **DP**Status: **OK****Configuration Changes**

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Test Transmission

Port	Time	Count	Measure	Predicted
2370	13:43	336		0
2370	13:44	337		0
2373	13:40	1060	5.01 psi	1065
2373	13:41	440	2.00 psi	440

Battery Tests

Battery # V Quiescent V Load

Problem:**Action Taken:** PT tests OK, good hydraulic contact. TB OK.**Site Notes:****Follow-Up:**

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log

Site Name: **Stroh Rd.** Date: **18-Jun-09** Time: **7:34**
Service Type: **Installation** Technician: **SB/MZ** Status: **OK**

Configuration Changes

Part #	Location
TB J 26838	2860
SP J 26326	2860
PT D 2891004	2860
BY R 0947	2860

Transducer Calibration

Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance

Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance

Switches:
Jumpers: **3 & 5**
Eprom:
Tx Freq: **169.525**
Rx Freq:
Fwd Power: **5.0**
Rev Power: **0.0**
SWR: **1.09**

Test Transmission

Port	Time	Count	Measure	Predicted

Battery Tests

Battery #	V Quiescent	V Load
BY R 0947	12.97	

Problem:

Action Taken: Site installed on June 17, 2009. Conduit was previously installed but a break had to be repaired halfway down the line. PT wet and good hydraulic contact. Desiccant placed in PT box and TXR. TB OK. RF OK.

Site Notes: 20.5" from bottom of riser to top of riser. Subtract 1 inch for PT cap = 19.5" from PT to top of riser.

Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log			
Site Name:	Stroh Rd.	Date:	25-Jun-09
Time:	7:51	Status:	OK
Service Type:	OneRain Service Ca	Technician:	SB/MZ

Configuration Changes	
Part #	Location

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission				
Port	Time	Count	Measure	Predicted

Battery Tests		
Battery #	V Quiescent	V Load

Problem:

Action Taken: Intake pipe for PT was clogged. Removed 6 feet of conduit and cleaned out the sediment. Re-drilled the intake cap with bigger holes. Replaced cap and conduit. Site is working properly.

Site Notes:

Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log

Site Name: **Hansen** Date: **24-Jun-09** Time: **9:44**
 Service Type: **Installation** Technician: **DP** Status: **OK**

Configuration Changes

Part #	Location
TX J 15290	4330
TB J 15124	4330
BY R 0618	4330

Transducer Calibration

Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance

Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance

Switches: **4330-00E**
 Jumpers: **C: J5 off**
 Eprom: **R 1.8 9CA1**
 Tx Freq: **169.500**
 Rx Freq:
 Fwd Power: **20.0**
 Rev Power: **0.0**
 SWR: **1.05**

Test Transmission

Port	Time	Count	Measure	Predicted
4330	11:46	1		0
4330	11:46	2		0

Battery Tests

Battery #	V Quiescent	V Load
BY R 0618	12.82	

Problem:

Action Taken: Installed standpipe previously removed from Indian Ruins with solar panel. Installed txr, battery, desiccant and TB. RF OK. Solar OK. TB OK.

Site Notes: GPS N 40* 10' 07" W -105* 19' 43" EI 7235 Directions" from locked gate @ Heil Valley Ranch Park, 2.3 M to gate on left, .2M to fork, take left 1.8M to meadow.

Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log			
Site Name:	Gross	Date:	05-Aug-09
Service Type:	Inspection	Technician:	DP
			Time: 10:00
			Status: OK

Configuration Changes	
Part #	Location

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission					
Port	Time	Count	Measure	Predicted	
4373	10:02	1061	5.15 psi	1060	
4373	10:03	424	2.04 psi	419	

Battery Tests		
Battery #	V Quiescent	V Load

Problem:

Action Taken: PT tests OK, good hydraulic contact. ID 4373 raw = 156 => 1.44, tape and enc = 1.41. CDWR log from 7/9/09 @14:34 tape = 1.74, enc = 1.74, pen = 1.74.

Site Notes:

Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log			
Site Name:	Eldorado Spring	Date:	05-Aug-09
Service Type:	Inspection	Technician:	DP
			Time: 11:47
			Status: OK

Configuration Changes	
Part #	Location

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission					
Port	Time	Count	Measure	Predicted	
4383	11:53	1098	5.14 psi	1094	
4383	11:54	437	2.06 psi	442	

Battery Tests		
Battery #	V Quiescent	V Load

Problem:

Action Taken: PT tests OK, good hydraulic contact. ID 4383 raw = 102 => 2.01, tape and enc = 1.91. CDWR log from 7/21/09 @ 16:23 tape and enc = 2.08.

Site Notes:

Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log			
Site Name:	Boulder Falls	Date:	03-Aug-09
Service Type:	Inspection	Technician:	DP
			Time: 12:06
			Status: OK

Configuration Changes	
Part #	Location

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission					
Port	Time	Count	Measure	Predicted	
4393	12:13	1239	5.32 psi	1239	
4393	12:14	473	2.04 psi	475	

Battery Tests		
Battery #	V Quiescent	V Load

Problem:

Action Taken: PT tests OK, good hydraulic contact.

Site Notes:

Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log			
Site Name: Orodel	Date: 03-Aug-09	Time: 11:46	
Service Type: Inspection	Technician: DP	Status: OK	

Configuration Changes	
Part #	Location

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission					
Port	Time	Count	Measure	Predicted	
4403	11:49	1062	5.12 psi	1058	
4403	11:50	421	2.03 psi	421	

Battery Tests		
Battery #	V Quiescent	V Load

Problem:

Action Taken: PT tests OK, good hydraulic contact. @ 11:51 ID 4403 raw = 169 => 2.44, tape and enc read 2.31. CDWR log from 7/21/09 @10:22 tape = 2.53, enc = 2.53, pen = 2.55.

Site Notes:

Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service LogSite Name: **Fourmile**Date: **03-Aug-09**Time: **12:50**Service Type: **Inspection**Technician: **DP**Status: **OK****Configuration Changes**

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Test Transmission

Port	Time	Count	Measure	Predicted
4413	12:54	1208	5.14 psi	1224
4413	12:55	469	2.01 psi	478

Battery Tests

Battery # V Quiescent V Load

Problem:**Action Taken:** PT tests OK, good hydraulic contact.**Site Notes:****Follow-Up:**

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service LogSite Name: **Bridge**Date: **03-Aug-09**Time: **10:53**Service Type: **Inspection**Technician: **DP**Status: **Site Down****Configuration Changes**

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Test Transmission

Port	Time	Count	Measure	Predicted
4423	11:01	1133	5.08 psi	1026

Battery Tests

Battery # V Quiescent V Load

Problem:**Action Taken:** PT tests high, PT is bad.**Site Notes:****Follow-Up:**

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log			
Site Name:	Rowena	Date:	03-Aug-09
Service Type:	Inspection	Technician:	DP
			Time: 13:15
			Status: OK

Configuration Changes	
Part #	Location

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission					
Port	Time	Count	Measure	Predicted	
4433	13:19	1240	5.25 psi	1247	
4433	13:20	468	2.03 psi	473	

Battery Tests		
Battery #	V Quiescent	V Load

Problem:

Action Taken: PT tests OK, good hydraulic contact.

Site Notes:

Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log			
Site Name:	James Creek	Date:	03-Aug-09
Service Type:	Inspection	Technician:	DP
			Time: 13:33
			Status: OK

Configuration Changes	
Part #	Location

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission					
Port	Time	Count	Measure	Predicted	
4443	13:38	1201	5.07 psi	1194	
4443	13:39	490	2.05 psi	484	

Battery Tests		
Battery #	V Quiescent	V Load

Problem:

Action Taken: PT tests OK, good hydraulic contact.

Site Notes:

Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log			
Site Name:	Lower Lefthand	Date:	03-Aug-09
Service Type:	Inspection	Technician:	DP
			Time: 13:55
			Status: OK

Configuration Changes	
Part #	Location

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission					
Port	Time	Count	Measure	Predicted	
4453	13:59	1003	5.06 psi	983	
4453	14:00	392	2.04 psi	394	

Battery Tests		
Battery #	V Quiescent	V Load

Problem:

Action Taken: PT tests OK, good hydraulic contact.

Site Notes:

Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log			
Site Name:	S. St. Vrain at Berry R	Date:	06-Aug-09
Service Type:	Inspection	Technician:	DP
			Time: 12:03
			Status: OK

Configuration Changes	
Part #	Location

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission					
Port	Time	Count	Measure	Predicted	
4463	12:06	1191	5.06 psi	1204	
4463	12:07	469	2.01 psi	479	

Battery Tests		
Battery #	V Quiescent	V Load

Problem:

Action Taken: PT tests OK, good hydraulic contact.

Site Notes:

Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log			
Site Name:	Little Narrows	Date:	06-Aug-09
Service Type:	Inspection	Technician:	DP
			Time: 11:53
			Status: PT Down

Configuration Changes	
Part #	Location

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission				
Port	Time	Count	Measure	Predicted
4470	11:54	270		0
4470	11:55	271		0
4470	11:55	272		0

Battery Tests		
Battery #	V Quiescent	V Load

Problem:
Action Taken: TB OK.
Site Notes:
Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service LogSite Name: **Lyons Diversion**Date: **06-Aug-09**Time: **14:09**Service Type: **Inspection**Technician: **DP**Status: **OK****Configuration Changes**

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Test Transmission

Port	Time	Count	Measure	Predicted
4563	14:13	1207	5.15 psi	1215
4563	14:14	476	2.03 psi	479

Battery Tests

Battery # V Quiescent V Load

Problem:**Action Taken:** PT tests OK, good hydraulic contact. @ 14:16 ID 4563 raw = 214 => 1.14, enc = 1.21.**Site Notes:****Follow-Up:**

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log			
Site Name:	Broadway	Date:	15-Jul-09
Service Type:	OneRain Service Ca	Technician:	DP
		Time:	13:16
		Status:	OK

Configuration Changes	
Part #	Location

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission					
Port	Time	Count	Measure	Predicted	
4583	13:27	1227	3.01 psi	1234	
4583	13:28	567	1.32 psi	564	

Battery Tests		
Battery #	V Quiescent	V Load

Problem: Wrong program.

Action Taken: Reprogrammed. PT tests OK, good huydraulic contact.

Site Notes:

Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log

Site Name: **Broadway** Date: **07-Jul-09** Time: **12:21**
 Service Type: **OneRain Service Ca** Technician: **DP** Status: **OK**

Configuration Changes

Part #	Location
BY J 0903	4580
BY J 0901	9000

Transducer Calibration

Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance

Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance

Switches:
 Jumpers:
 Eprom:
 Tx Freq:
 Rx Freq:
 Fwd Power:
 Rev Power:
 SWR:

Test Transmission

Port	Time	Count	Measure	Predicted

Battery Tests

Battery #	V Quiescent	V Load
BY J 0903	12.82	

Problem: Battery dying.

Action Taken: Replaced battery. Solar OK. Reprogrammed datalogger after reset. Unable to test PT, equipment failure.

Site Notes:

Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log

Site Name: **Broadway** Date: **05-Aug-09** Time: **13:36**
 Service Type: **OneRain Service Ca** Technician: **DP** Status: **OK**

Configuration Changes

Part #	Location
BY J 0904	4580
BY J 0903	9000

Transducer Calibration

Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance

Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance

Switches: **4580-**
 Jumpers:
 Eprom:
 Tx Freq: **169.500**
 Rx Freq:
 Fwd Power:
 Rev Power:
 SWR:

Test Transmission

Port	Time	Count	Measure	Predicted

Battery Tests

Battery #	V Quiescent	V Load

Problem: Battery low**Action Taken:** Replaced battery. Replaced solar regulator.**Site Notes:****Follow-Up:**

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service LogSite Name: **Green Ditch**Date: **06-Aug-09**Time: **9:13**Service Type: **Inspection**Technician: **DP**Status: **OK****Configuration Changes**

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Test Transmission

Port	Time	Count	Measure	Predicted
4593	9:18	1060	5.45 psi	1054
4593	9:20	404	2.08 psi	395

Battery Tests

Battery # V Quiescent V Load

Problem:**Action Taken:** PT tests OK, good hydraulic contact.**Site Notes:****Follow-Up:**

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log			
Site Name:	Green Ditch	Date:	05-Aug-09
Service Type:	Inspection	Technician:	DP
			Time: 14:21
			Status: Incomplete

Configuration Changes	
Part #	Location

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission				
Port	Time	Count	Measure	Predicted

Battery Tests		
Battery #	V Quiescent	V Load

Problem:

Action Taken: Gate closed, access??

Site Notes:

Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log			
Site Name:	Hills Mills	Date:	22-Jul-09
Service Type:	Inspection	Technician:	DP
		Time:	13:14
		Status:	OK

Configuration Changes	
Part #	Location

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission				
Port	Time	Count	Measure	Predicted
4710	13:22	1652		0
4710	13:22	1653		0

Battery Tests		
Battery #	V Quiescent	V Load

Problem:

Action Taken: @ 13:29 ID 4711 raw = 113 => 44.31% RH, ID 4712 raw = 142 => 62 deg.F, psychrometer readings Td = 63 deg.F, Tw = 50 deg.F implying RH =45% and dp = 41 deg.F.TB OK. Wind sensors rotating freely.

Site Notes:

Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log			
Site Name:	Sugarloaf	Date:	22-Jul-09
Service Type:	Inspection	Technician:	DP
			Time: 11:49
			Status: OK

Configuration Changes	
Part #	Location

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission				
Port	Time	Count	Measure	Predicted
4730	12:31	116		0
4730	12:31	117		0

Battery Tests		
Battery #	V Quiescent	V Load

Problem:

Action Taken: Restablished BP, ID 4734 function. @ 12:22 ID 4731 raw = 161 => 63.14% RH, ID 4732 raw = 150 => 70 deg.F, psychrometer readings Td = 70 deg.F, Tw = 62 deg.F implying RH = 66% and dp = 58 deg.F.TB OK. Wind sensors rotating freely.

Site Notes:

Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log

Site Name: Louisville WTP

Date: 06-Aug-09

Time: 10:31

Service Type: Inspection

Technician: DP

Status: OK

Configuration Changes

Part # Location

Transducer Calibration

Sensor ID Slope Calib Offset Std Error

Tx Maintenance

Part # Ref V Freq Err Deviation ROM Batt

Settings and Performance

Switches:

Jumpers:

Eprom:

Tx Freq:

Rx Freq:

Fwd Power:

Rev Power:

SWR:

Test Transmission

Port	Time	Count	Measure	Predicted
4750	10:35	424		0
4750	10:41	425		0
4750	10:42	426		0

Battery Tests

Battery # V Quiescent V Load

Problem:

Action Taken: @10:35 ID 4751 raw = 135 => 52.94% RH, ID 47852 raw = 154 => 74 deg. F, psychrometer readings Td = 75 deg.F, Tw = 63 deg.F implying RH = 53% and dp = 57 deg.F. TB OK. Wind sensors rotating freely.

Site Notes:**Follow-Up:**

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log			
Site Name:	CalWood Ranch	Date:	22-Jul-09
Service Type:	Inspection	Technician:	DP
			Time: 14:21
			Status: OK

Configuration Changes	
Part #	Location

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission				
Port	Time	Count	Measure	Predicted
4770	14:30	200		0
4770	14:32	202		0

Battery Tests		
Battery #	V Quiescent	V Load

Problem:

Action Taken: @ 14:16 ID 4771 raw = 135 => 52.94% RH, ID 4772 raw = 152 => 72 deg.F, psychrometer readings Td = 72 deg.F, Tw = 61 deg.F implying RH = 56% and dp = 56 deg.F. TB OK. Wind sensors rotating freely.

Site Notes:

Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log			
Site Name:	Button Rock	Date:	06-Aug-09
Service Type:	Inspection	Technician:	DP
			Time: 12:48
			Status: OK

Configuration Changes	
Part #	Location
TB J 18350	4790
TB BC 14	9000

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission				
Port	Time	Count	Measure	Predicted
4790	13:35	814		0

Battery Tests		
Battery #	V Quiescent	V Load

Problem:

Action Taken: @ 12:43 ID 4791 raw = 110 => 43.14% RH, ID 4792 raw = 161 => 81 deg.F, psychrometer readings Td = 81 deg.F, Tw = 65 deg.F implying RH = 45% and dp = 58 deg.F. TB bearings bad, replaced, OK. Wind sensors rotating freely.

Site Notes:

Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log			
Site Name:	S. Boulder Cr.@ Sans	Date:	05-Aug-09
Service Type:	Inspection	Technician:	DP
			Time: 13:06
			Status: OK

Configuration Changes	
Part #	Location

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance	
Switches:	4830-00E
Jumpers:	C:J6,1-2,J3,5off;L:J1,4,11
Eprom:	R1.8 9CA1
Tx Freq:	169.500
Rx Freq:	
Fwd Power:	
Rev Power:	
SWR:	

Test Transmission				
Port	Time	Count	Measure	Predicted
4830	13:14	591		0
4830	13:14	593		0
4833	13:10	1201	5.36 psi	1204
4833	13:11	459	2.04 psi	459

Battery Tests		
Battery #	V Quiescent	V Load

Problem:

Action Taken: PT tests OK, good hydraulic contact. TB OK.

Site Notes:

Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log

Site Name: **SBC @ SB Canon Dite** Date: **05-Aug-09** Time: **12:28**
 Service Type: **Inspection** Technician: **DP** Status: **OK**

Configuration Changes

Part #	Location

Transducer Calibration

Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance

Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance

Switches:
 Jumpers:
 Eprom:
 Tx Freq:
 Rx Freq:
 Fwd Power:
 Rev Power:
 SWR:

Test Transmission

Port	Time	Count	Measure	Predicted
4840	12:45	79		0
4843	12:42	1214	5.05 psi	1228
4843	12:43	488	2.06 psi	501

Battery Tests

Battery #	V Quiescent	V Load

Problem:

Action Taken: PT tests OK, good hydraulic contact. TB OK.

Site Notes:**Follow-Up:**

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log			
Site Name:	West Repeater	Date:	14-Jul-09
Service Type:	OneRain Service Ca	Technician:	DP
		Time:	13:11
		Status:	OK

Configuration Changes	
Part #	Location

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission				
Port	Time	Count	Measure	Predicted

Battery Tests		
Battery #	V Quiescent	V Load

Problem:

Action Taken: In an attempt to isolate receive problems, removed "splitter" and installed a temporary antenna on 169.500 rpt, main ant. on 169.525.

Site Notes:

Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log			
Site Name:	Con Mutual Base	Date:	10-Jul-09
Service Type:	OneRain Service Ca	Technician:	DP
		Time:	14:14
		Status:	Site Down

Configuration Changes	
Part #	Location

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission				
Port	Time	Count	Measure	Predicted

Battery Tests		
Battery #	V Quiescent	V Load

Problem:

Action Taken: Tested receiver, very poor performance. As no data since 7/4/09 removed unit for test at shop.

Site Notes:

Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log			
Site Name:	Con Mutual Base	Date:	14-Jul-09
Service Type:	OneRain Service Ca	Technician:	DP
		Time:	11:59
		Status:	Site Down

Configuration Changes	
Part #	Location

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission				
Port	Time	Count	Measure	Predicted

Battery Tests		
Battery #	V Quiescent	V Load

Problem:

Action Taken: Replaced receiver. Found decoder to be bad, excess bad ID's. Also computer does not accept data from known good (my truck) decoder.

Site Notes:

Follow-Up:

MAINTENANCE RECORD
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
ONERAIN INCORPORATED

Service Log			
Site Name:	Con Mutual Base	Date:	24-Jul-09
Service Type:	OneRain Service Ca	Technician:	DP
		Time:	10:20
		Status:	OK

Configuration Changes	
Part #	Location

Transducer Calibration			
Sensor ID	Slope	Calib Offset	Std Error

Tx Maintenance				
Part #	Ref V	Freq Err	Deviation	ROM Batt

Settings and Performance
Switches:
Jumpers:
Eprom:
Tx Freq:
Rx Freq:
Fwd Power:
Rev Power:
SWR:

Test Transmission				
Port	Time	Count	Measure	Predicted

Battery Tests		
Battery #	V Quiescent	V Load

Problem:

Action Taken: Installed new Kantronics decoder. Rebooted UDFCD computer. Basestation is receiving data from both repeaters.

Site Notes:

Follow-Up: