

APPENDIX B:

AUTOMATED STATION PROBE CALIBRATION LOGS

MAY/JUNE 2011 Groundwater

TPBW-15

May
2011
WH

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none">- Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm- Conduct daily prior to use or if CCV fails	<ul style="list-style-type: none">- Read after pressing "Calibrate"- 1 standard at the low end of expected sample reading range but no less than 100 uS/cm- Must be within $\pm 5\%$ of TV	<ul style="list-style-type: none">- Read at the end of the event, or within 24 hrs of initial calibration, whichever is less.- Read only (do not press "calibrate")- Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
6-2-11	17:24	IR	156275	Crocker 1A3336	50,000	51,236	Y		SH
"	17:27	IC/ICV	"	2004/12	"	50,069.73	Y	verified @ 49,782	SH
"	17:32	CCV	"	Crocker OAH388	25,000	25,233	Y		SH
"	17:33	CCV	"	Crocker OAK080	100,000	99,227	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

I = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPBW-1M

5/2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
6-2-11	16:45	IR	156174	Green 1A8336	50,000	49,132	Y		SH
"	16:51	IC/ICV	"	exp. 4/12	"	49,132	Y	ver. fixed @ 49,451	SH
"	16:58	CCV	"	Green 0A11384	25,000	25,092	Y		SH
"	16:59	CCV	"	Green 0A1080	100,000	100,013	Y		SH
				exp. 11/11					

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPBW-11)

5/2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none">- Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm- Conduct daily prior to use or if CCV fails	<ul style="list-style-type: none">- Read after pressing "Calibrate"- 1 standard at the low end of expected sample reading range but no less than 100 uS/cm- Must be within $\pm 5\%$ of TV	<ul style="list-style-type: none">- Read at the end of the event, or within 24 hrs of initial calibration, whichever is less.- Read only (do not press "calibrate")- Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
6-21	15:24	IC	156132	Crocker 1A0736	50,000	50,320	Y		SH
"	15:29	IC/CCV	"	"	"	PCC = .994 @ 50,373	Y	Verified @ 49,978	SH
"	15:30	CCV	"	Crocker 0A1088	25,000	25,386	Y		SH
"	15:32	CCV	"	Crocker 0A1088	100,000	99,956	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPW-25

5/2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none">- Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm- Conduct daily prior to use or if CCV fails	<ul style="list-style-type: none">- Read after pressing "Calibrate"- 1 standard at the low end of expected sample reading range but no less than 100 uS/cm- Must be within $\pm 5\%$ of TV	<ul style="list-style-type: none">- Read at the end of the event, or within 24 hrs of initial calibration, whichever is less.- Read only (do not press "calibrate")- Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
5-20-11	14:36	IR	Probe 156123	Green 1A8336	50,000 μ S	49,915.83 ⁸⁸	Y		JA
"	14:39	IC/ICV	"	"	"	49,711.715	Y	verified @	JA
"	14:42	CCV	"	Green 0A11388	25,000 μ S	25,417.68	Y		JA
"	14:45	CCV	"	Green 0A1080	100,000 μ S	98,541.26	Y		JA

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPH-2A

5/2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none">- Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm- Conduct daily prior to use or if CCV fails	<ul style="list-style-type: none">- Read after pressing "Calibrate"- 1 standard at the low end of expected sample reading range but no less than 100 uS/cm- Must be within $\pm 5\%$ of TV	<ul style="list-style-type: none">- Read at the end of the event, or within 24 hrs of initial calibration, whichever is less.- Read only (do not press "calibrate")- Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
5-20-11	14:01	IR	P732 155882	GT 1A9334	50,000	50,057.32	Y		JJ
4	14:04	IC/ICV	"	"	"	PLC=0.990 @ 50,409.67		verified @ 49,799.48	JJ
"	14:08	CCV	"	GT 0A4388	25,000	25,215.98	Y		JJ
"	14:10	CCV	"	GT 0A4080	100,000	98,192.56	Y		JJ

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

I = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPKw-20

5/2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none">- Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm- Conduct daily prior to use or if CCV fails	<ul style="list-style-type: none">- Read after pressing "Calibrate"- 1 standard at the low end of expected sample reading range but no less than 100 uS/cm- Must be within $\pm 5\%$ of TV	<ul style="list-style-type: none">- Read at the end of the event, or within 24 hrs of initial calibration, whichever is less.- Read only (do not press "calibrate")- Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
05-20-11	13:24	IC	Probe 155887	GT 1A0336	50,000 μ S	49,870.89	Y		JS
"	13:28	IC/ICV	"	"	"	PLC = 0.995, @ 50,220.28	Y	verified @ 49,882.67	JS
"	13:31	CCV	"	GT 0AH388	25,000 μ S	25,136.75	Y		JS
"	13:33	CCV	"	GT 0AK080	100,000 μ S	98,820.86	Y		JS

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPW-2D
5/20/11

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
5/20/11	13:36	01832 155 887	15850222 15844344	33.03	32.8	Y		JS

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPL-35

5/2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none">- Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm- Conduct daily prior to use or if CCV fails	<ul style="list-style-type: none">- Read after pressing "Calibrate"- 1 standard at the low end of expected sample reading range but no less than 100 uS/cm- Must be within $\pm 5\%$ of TV	<ul style="list-style-type: none">- Read at the end of the event, or within 24 hrs of initial calibration, whichever is less.- Read only (do not press "calibrate")- Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
5-20-11	12:08	IR	probe 156184	GT 1A8336	50,000 μ S	50,521.32	y ✓		JA
"	12:11	IC/ICV	"	"	"	PLC = 0.995 @ 50,214.72	y ✓	verified @ 49,771.68	JA
"	12:14	CCV	"	GT 0A1388	25,000 μ S	25,052.98	y ✓		JA
"	12:17	CCV	"	GT 0AK080	100,000 μ S	100,357.06	y ✓		JA

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

I = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPGW-3^M JA

5/2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none">- Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm- Conduct daily prior to use or if CCV fails	<ul style="list-style-type: none">- Read after pressing "Calibrate"- 1 standard at the low end of expected sample reading range but no less than 100 uS/cm- Must be within $\pm 5\%$ of TV	<ul style="list-style-type: none">- Read at the end of the event, or within 24 hrs of initial calibration, whichever is less.- Read only (do not press "calibrate")- Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
5-20-11	11:34	IR	Probe 156003	GT 1A0336	50,000 μ S	49,709.49	y		JA
"	11:37	TC/TCV	"	"	"	PCC = 1.006 @ 49,646.61	y	verified @ 49,862.06	JA
"	11:40	CCV	"	GT 0AH388	25,000 μ S	25,118.55	y		JA
"	11:42	CCV	"	GT 0AK080	100,000 μ S	100,193.00	y		JA

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPCW-3m
5/2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
5.20.11	11:44	P722 156003	15650222 15644349	32.38	32.2	y		JD

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPCW-3D

5/2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none">- Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm- Conduct daily prior to use or if CCV fails	<ul style="list-style-type: none">- Read after pressing "Calibrate"- 1 standard at the low end of expected sample reading range but no less than 100 uS/cm- Must be within $\pm 5\%$ of TV	<ul style="list-style-type: none">- Read at the end of the event, or within 24 hrs of initial calibration, whichever is less.- Read only (do not press "calibrate")- Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
5-20-11	10:53	IR	Powe 157230	CT 1AB336	50,000 _{MS}	49,660.13	y		jj
"	10:57	IC/ICV	"	"	"	RLC = 0.995 25,228.76	y	unrec'd @ 50,036.46	jj
"	10:59	CCV	"	CT 0AH388	25,000 _{MS}	25,239.95	y		jj
"	11:00	CCV	"	CT 0AK080	100,000 _{MS}	100,885.73	y		jj

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1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPCW-45

5/2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none">- Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm- Conduct daily prior to use or if CCV fails	<ul style="list-style-type: none">- Read after pressing "Calibrate"- 1 standard at the low end of expected sample reading range but no less than 100 uS/cm- Must be within $\pm 5\%$ of TV	<ul style="list-style-type: none">- Read at the end of the event, or within 24 hrs of initial calibration, whichever is less.- Read only (do not press "calibrate")- Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
5/19/11	13:38	IR	151977	GT 0AC1114	12,880	12,915	Y		SH
"	13:40	IC/ICV	"	"	12,880	PCC: 1.013 @12,707	Y	verified @ 12,814	SH
"	13:43	CCV	"	GT 1A8247	1,000	1,022	Y		SH
"	13:46	CCV	"	GT 0A11388	25,000	25,271	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPCW-4m

5/2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none">- Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm- Conduct daily prior to use or if CCV fails	<ul style="list-style-type: none">- Read after pressing "Calibrate"- 1 standard at the low end of expected sample reading range but no less than 100 uS/cm- Must be within $\pm 5\%$ of TV	<ul style="list-style-type: none">- Read at the end of the event, or within 24 hrs of initial calibration, whichever is less.- Read only (do not press "calibrate")- Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
5/18/11	12:33	IR	153929	CT 1A-8336	50,000	50,404	Y		SH
"	12:38	IC/ICV	"	"	50,000	PCC: 0.987 250,619	Y	verified @ 419,727	SH
"	12:43	CCV	"	CT 0AHJ88	25,000	24,927	Y		SH
"	12:45	CCV	"	CT 0A7080	100,000	100,144	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

I = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPGW-40
5/2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
5/18/11	11:44	IC	Probe 155993	CT (A8334)	50,000	50,261	Y		SH
5/18/11	11:53	IC/ICV	"	"	30,000	PLC = 0.997 @ 50,088	Y	W:ALA@ 49,830	SH
"	11:56	CCV	"	CT 0A11388	25,000	24,936	Y		SH
"	11:59	CCV	"	0A1080	100,000	101,238	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TP6W-55

5/2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
6/8/11	16:52	IR	156157	GT 0AL7114	12,880	12,538	Y		SH
"	17:06	IC/ICV	"	"	"	PCC=1.013 @ 12,713	Y	Verified @ 12,809	SH
"	17:08	CCV	"	GEOTECH 1A8217	1,000	1022	Y		SH
"	17:09	CCV	"	Green 0AHJ88	25,000	25,289	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TP6W-SM

5/2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
6-8-11	16:09	IR	155936	GT QA11088	25,000	25,519	Y		SH
"	16:18	IC/ICV	"	"	"	RIC = .987 @ 25,342	Y	verified @ 24,955	SH
"	16:20	CCV	"	GT 0AG114	12,880	12,803	Y		SH
"	16:23	CCV	"	GT 1A0336	50,000	49,400	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TP6W-50

5/2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 $\mu\text{S}/\text{cm}$ Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 $\mu\text{S}/\text{cm}$ Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading ($\mu\text{S}/\text{cm}$)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
6/8/11	15:20	IR	155939	DAH388 10/SH	25,000	24,543	Y		SH
"	15:24	IC/ICV	"	"	"	pcc = 1.016 @ 24,584	Y	verified @ 24,834	SH
"	15:27	CCV	"	6765 7912-6 0461141	12,880	12,729	Y		SH
"	15:30	CCV	"	67 1A B336	50,000	49,010	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TP6W-50
5/2011

FPL Turkey Point Monitoring Plan
Field Instrument Calibration Form

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
6/8/11	15:40	155939	15050222 15044349	20.75	20.5	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

T PGW-65

5/20/11

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
5/17/11	14:48	IC	155878	Quorum 0AB114	12,880	12,907	Y		SH
"	14:51	IC/ICV	"	"	"	PCC=1.013 12,706	Y	verified @ 12,828	SH
"	14:54	CCV	"	G7 1A0217	1,000	1,018	Y		SH
"	14:58	CCV	"	Quorum 0AHJ88	25,000	25,968	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPGW-6 m

5/20/11

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none">- Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm- Conduct daily prior to use or if CCV fails	<ul style="list-style-type: none">- Read after pressing "Calibrate"- 1 standard at the low end of expected sample reading range but no less than 100 uS/cm- Must be within $\pm 5\%$ of TV	<ul style="list-style-type: none">- Read at the end of the event, or within 24 hrs of initial calibration, whichever is less.- Read only (do not press "calibrate")- Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
5/17/11	15:46	IC	155915	GT 0A1388	25,000 μ S	25,103	Y		SH
"	15:53	IC/CCV	"	"	"	PCC = 0.984 25,388.86	Y	worked @ 25,103	SH
"	16:00	CCV	"	GT 0A6114	12,880 μ S	12,724	Y		SH
"	16:02	CCV	"	GT 1A9336	50,000 μ S	49,189	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TP6W-6D

5/2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
5/17/11	16:42	IR	155907	GT 04H388	25,000 ~	25,208	Y		SH
"	16:47	IC/ICV	"		"	PLC=,991 25,201	Y	was 25,034	SH
"	16:51	CCV	"	GT 04C7114	12,880 ~	12,855	Y		SH
7	16:52	CCV	"	GT 1A0334	50,000 ~	49,995	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TP17W-6D
5/2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
5/17/11	16:55	155907	15050222 15044349	29.70	29.4	Y ✓		SH

¹ I = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TP6W-7S
5/2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
6-2-11	13:14	IC	156138	GT BAG 114	12,880	13,161	Y		SH
"	13:27	IC/ICV	"	"	"	PCC = .993 @ 12,988	Y	ver. fixed @ 12,893	SH
"	13:30	CCV	"	GT 1A0217	1,000	1,038	Y		SH
"	13:33	CCV	"	GT 0A4388	25,000	25,266	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TP6W-7M
new probe.

5/20/11

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none">- Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm- Conduct daily prior to use or if CCV fails	<ul style="list-style-type: none">- Read after pressing "Calibrate"- 1 standard at the low end of expected sample reading range but no less than 100 uS/cm- Must be within $\pm 5\%$ of TV	<ul style="list-style-type: none">- Read at the end of the event, or within 24 hrs of initial calibration, whichever is less.- Read only (do not press "calibrate")- Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
6-2-11	12:32	IC/ICV	156362	GT 0A67114	12,880	ACC = 1,007 @ 12,784	Y	Verified @ 12,843	SH
"	12:38	CCV	"	GT 1A8217	1,000	1,026	Y		SH
"	12:39	CCV	"	GT 0A1388	25,000	25,108	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TP6W-7D
5/2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
6-2-11	11:13	IR	157236	GT 0A97114	12,880	12,999	y		SH
"	11:16	IC/ICV	"	"	12,880	PCC = 1.006 @ 12,803	y	verified @ 12,882	SH
"	11:18	CCV	"	GT 1A8217	1,000	1,011	y		SH
"	11:19	CCV	"	GT 0AH388	25,000	25,307	y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TP17W-70
5/2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
6-2-11	11:20	157236	15050222 15044349	32.2	32.1	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPCw - 85

5/20/11

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none">- Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm- Conduct daily prior to use or if CCV fails	<ul style="list-style-type: none">- Read after pressing "Calibrate"- 1 standard at the low end of expected sample reading range but no less than 100 uS/cm- Must be within $\pm 5\%$ of TV	<ul style="list-style-type: none">- Read at the end of the event, or within 24 hrs of initial calibration, whichever is less.- Read only (do not press "calibrate")- Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
5/17/11	10:12	IC	155890	GT 0A67114	12,880	12,934.45	Y		SH
5/17/11	10:16	IC/300	"	"	"	PLC = 0.992 12,975	Y	verified @ 12,838	SH
5/17/11	10:21	CCV	"	GT 1A8217	1,000	1,040	Y		SH
5/17/11	10:24	CCV	"	GT 0A4388	25,000	25,237	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPW - 8m

5/2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
5/17/11	11:01	IR	154137 154347	G7 0A61114	12,880 uS	12,951	Y		SH
"	11:08	IC/ICV	"	"	"	RCL=0.987 13,041	Y	write @ 12,774	SH
"	11:10	CCV	"	G7 1A8217	1,000 uS	982	Y		SH
"	11:17	CCV	"	G7 0AH388	25,000 uS	25,142	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPC7W-8D

5/20/11

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none">- Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm- Conduct daily prior to use or if CCV fails	<ul style="list-style-type: none">- Read after pressing "Calibrate"- 1 standard at the low end of expected sample reading range but no less than 100 uS/cm- Must be within $\pm 5\%$ of TV	<ul style="list-style-type: none">- Read at the end of the event, or within 24 hrs of initial calibration, whichever is less.- Read only (do not press "calibrate")- Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
5/17/11	11:56	IR	154926	GT QA6114	12.880	12,984	Y		SH
"	12:04	IC/SW	"	"	"	SCC = 0.999 @ 12,905	Y	wire @ 12,939	SH
"	12:07	CCV	"	GT 1A8217	1,000	1,022	Y		SH
"	12:11	CCV	"	GT 0AH388	25,000	26,035	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

(PGW-95
5/2011)

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
05/16/11	12:24	in. FTS1 ready	Pome 155889	Geotech 12,880 uS 0A67114	12,880	13,107.96	Y		SH
"	12:28	IC/ICV	"	"	PCC-1989 @ 13,010		Y	linked @ 12,793.33	SH
"	12:32	CCV	"	Geotech 1,000 uS 1A0217	1,000 uS	1,014	Y		SH
"	12:36	CCV	"	Geotech 25,000 uS 0A11388	25,000 uS	24,986	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TRW-9m

5/20/11

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
5-16-11	13:32	IR	P703x 156175	C-7 12,880 SH OAG-111	12,880 uS	13,013	Y		SH
"	13:37	IC/ICV	"	"	PCC=1.000 12,880	PCC=1.000 12,881	Y	checked @ 12,779	SH
"	13:42	CCV	"	C-7 1,000 SH 1A8217	1,000 uS	1,040	Y		SH
"	13:46	CCV	"	C-7 25,000 SH OAG-111	25,000	25,423	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPW-9m
5/2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
5-16-11	13:50	PRW 156175	15050222 15044349	33.85	33.7	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPM-90

5/20/11

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
5-16-11	14:18	IR	Probe 155879	CTT 12,880 uS 0A2714	12,880 uS	12,982	Y		SH
"	14:24	IC/ICV	"	"	12,880 uS	PLC=0.997 @ 12,905 uS	Y	worked @ 12,781	SH
"	14:27	CCV	"	CTT 1,000 uS 1A0217	1,000 uS	1,046	Y		SH
"	14:30	CCV	"	25,000 CTT 0A1388	25,000 uS	25,469	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPCW-9D
5/2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

*Both #1's
on therm-
meter.*

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
5-16-11	14:34	P722 155879	15044349 15050222	35.2	34.8	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

**FPL Turkey Point Monitoring Plan
Field Instrument Calibration Form**

TPC-105
5/2011

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
5-5-11	8:40	IR	Probe 165871	Green 1A3336	50,000	50,360	Y		SH
"	8:42	IC/ICV	"	"	"	PLC=0.78 @ 50,029	Y	Unread @ 49,958	SH
"	8:45	CCV	"	Green 0A41388	25,000	25,054	Y		SH
"	8:47	CCV	"	Green 0A4080	100,000	100,477	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

**FPL Turkey Point Monitoring Plan
Field Instrument Calibration Form**

TPCW-10m
5/2011

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
5-5-11	9:11	IR	1641529	CTT 1AD336	50,000	50,062	Y		SH
"	09:15	IC/ICV	"	"	50,000	RCC = 0.997 @ 50,164	Y	ver. fied @ 49,935	SH
"	09:18	CCV	"	CTT 0AK388	25,000	25,005	Y		SH
"	09:22	CCV	"	CTT 0AK080	100,000	99,535	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

5/2011

QAPP Requirements:

- Monthly verification against NIST-traceable thermometer
- Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
- Quarterly verification at temperatures above and below the range of sample readings for the quarter

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

TPCW-100
5/20/11

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
05-5-11	09:15	IR	168177	GT 1A0330	50,000	50,244	Y		SH
"	09:46	IC/ICV	"	"	50,000	RC=0.996 @50,233	Y	verified @ 49,706	SH
"	09:52	CCV	"	GT 0A11388	25,000	25,199	Y		SH
"	09:53	CCV	"	GT 0A1080	100,000	99,726	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

I = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TP6W-11M
5/2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
4/25/11	11:06	IR	165283	GT 1A5336	50,000	50,429	Y		SH
"	11:14	IC/ICV	"	"	50,000	RC=0.989 @ 50,576	Y	verified @ 49,865	SH
"	11:17	CCV	"	GT 0A1388	25,000	25,119	Y		SH
"	11:20	CCV	"	GT 0A1080	100,000	99,918	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TP6W-115

5/2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
4/29/11	12:56	IR	165269	GT 1A9334	50,000	49,535	Y		SH
"	13:01	IC/ICV	"	"	50,000	PCC=0.995 @50,186	Y	verified @ 49,966	SH
"	13:07	CCV	"	GT 0A4388	25,000	24,983	Y		SH
"	13:10	CCV	"	GT 6AK080	100,000	100,912	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

I = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

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TP6W-11D

5/2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
4/29/11	10:15	IR	165277	C7T 108336	50,000	50,082	Y		SH
"	10:20	IC/ICV	"	"	50,000	REL: 0.991 50,398	Y	Verified @ 49,643	SH
"	10:23	CCV	"	C7T 0A41388	25,000	25,085	Y		SH
"	10:25	CCV	"	C7T 0A4080	100,000	99,277	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPG-110
5/2011

FPL Turkey Point Monitoring Plan
Field Instrument Calibration Form

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
4/29/11	10:25	165277	101847574	35.1	35.2	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TP6W-12S
5/2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
5-31-11	15:21	IR	155925	GT 1A0336	50,000	51,474	Y		SH
"	15:27	IC/CCV	"	"	50,000	50,287	Y	ver.ified @ 50,200	SH
"	15:30	CCV	"	GT 0AH388	25,000	25,606	Y		SH
"	15:32	CCV	"	GT 0A0080	100,000	100,076	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPCW-125
5/2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Temperature, water**

FDEP-SOP Reference: **FT1400**

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
5/31/11	15:37	155925	15050222 15044349	36.21	35.9	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPCW-12M
5/2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
5/31/11	14:21	IR	157222	CTT (A9336)	50,000	50,282	Y		SH
"	14:28	IC/ICV	"	"	50,000	PCC = 0.980 @ 50,911	Y	Var. Aced @ 49,271	SH
"	14:32	CCV	"	CTT 0AH388	25,000	24,910	Y		SH
"	14:36	CCV	"	CTT 0AK030	100,000	97,342	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPCW-121

5/2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
5-31-11	10:41	IR	155922	GT 1A8336	50,000	50,517	Y		SH
"	10:47	IC/ICV	"	"	50,000	PLC = 1,228 @ 49,567	Y	verified @ 49,808	SH
"	10:54	CCV	"	GT 0A41388	25,000	25,200	Y		SH
"	10:56	CCV	"	GT 0A1C080	100,000	100,077	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

TP6W-135

5/20/11

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
5/19/11	12:55	IR	155892	GT 1AB336	50,000	50,525 SH	Y		SH
5/19/11	13:00	IC/ICV	"	"	50,000	ICC = .999 @ 50,019	Y	Verified @ 50,025	SH
5/19/11	13:02	CCV	"	GT 0A11388	25,000	25,103	Y		SH
5/19/11	13:06	CCV	"	GT 0A2080	100,000	100,576	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

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8.459

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

5/2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
5/19/11	11:55	IR	155900	GT 1A8336	50,000	50,204	Y		SH
"	11:58	IC/ICV	"	"	50,000	ICC: 0.985 0.985 50,712	Y	verified at 49,619	SH
"	12:02	CCV	"	GT 0A14388	25,000	25,016	Y		SH
"	12:07	CCV	"	GT 0A1080	100,000	99,898	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPCW-13M

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: **Temperature, water**

FDEP-SOP Reference: **FT1400**

QAPP Requirements: Monthly verification against NIST-traceable thermometer
 Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
 Quarterly verification at temperatures above and below the range
 of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
5/19/11	12:10	155900	15030222 15044349	32.0	31.8	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TP6W-13D

5/2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
5/19/11	10:44	IR	154952	CT 1A9336	50,000	49,902	Y		SH
"	10:47	IC/ICV	"	"	50,000	PCL-1.030 250,311	Y	verified @ 50,074	SH
"	10:49	CCV	"	CT 0A1388	25,000	25,051	Y		SH
"	10:52	CCV	"	(re-read) 0A1680	100,000	101,580	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TP6W-145
5/20/11

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
4/28/11	13:17	IC	156173	Green 1A9336	50,000	50,346	Y		SH
"	13:21	IC/ICV	"	"	50,000	PLC = 1.007 @ 49,640	Y	verified @ 49,728	SH
"	13:24	CCV	"	Green 0A4398	25,000	25,212	Y		SH
"	13:26	CCV	"	Green 0AK080	100,000	99,906	Y		SH
				278-11/11					

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

3/2011
508

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range of sample readings for the quarter

TP6W-14M
5/2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
4/28/11	12:16	IR	156137	GROTECH 1A8336	50,000	50,753	Y		SH
"	12:18	IC/ICV	"	"	50,000	PCC = 999 @ 50,027	Y	Verified @ 49,684	SH
"	12:22	CCV	"	GROTECH 0A11388	25,000	25,126	Y		SH
"	12:34	CCV	"	GROTECH 0A4080	100,000	99,429	Y		SH
				exp. 1/11					

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

I = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TP6W-1410

5/20/11

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of Initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
4/28/11	10:55	IR	156192	Green LA 8336	50,000	49,972	Y		SH
"	10:57	IC/ICV	"	"	50,000	PCC = 0.993 50,317	Y	Verified @ 49,643	SH
"	11:00	CCV	"	Green OA4388 exp - 8/11	25,000	25,033	Y		SH
"	11:02	CCV	"	Green OA4080 exp 11/11	100,000	100,466	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TP6W-145
5/2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
6/23/11	11:06	IR	156173	Green 1A8336	50,000	50,423	Y	Temp = 31.21	SH
"	11:10	IC/ICV	"	"	50,000	PCC = 1.006 @ 49,660	Y	Verified @ 49,959 Temp = 31.71°C	SH
"	11:12	CCV	"	Green 1A0234	25,000	24,781	Y	Temp = 32.24°C	SH
"	11:22	CCV	"	Green OAK-080	100,000	104,764	Y	Temp = 33.96	SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

FPL Turkey Point Monitoring Plan
Field Instrument Calibration Form

TP6W-141M

5/2011

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
6/22/11	10:40	IC	156137	Grocon 1AB336	50,000	49,770	Y	TEMP = 30.59	SH
"	10:44	IC/ICV	"	"	50,000	PCC = 1.007 @ 49,677	Y	verified @ 50,005 TEMP = 30.95°C	SH
"	10:46	CCV	"	Grocon 1AD234	25,000	24,941	Y	TEMP = 30.79°C	SH
"	10:47	CCV	"	Grocon 0A1-080	100,000	101,489	Y	TEMP = 30.63°C	SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TP6W-1410
5/2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
6/22/11	10:15	IR	156192	Groher LAB336	50,000	50,041	Y	TEMP = 29.32°C	SH
"	10:18	IC/ICV	"	"	50,000	ICC = 1.000 @ 49,992	Y	verified @ 50,026 TEMP = 29.92°C	SH
"	10:20	CCV	"	Groher LAB234	25,000	24,985	Y	TEMP = 29.97	SH
"	10:21	CCV	"	Groher OAR090	100,000	101,954	Y	TEMP = 29.66	SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TP6W-14D
5/2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
6/22/11	10:22	156192	15050222 15044349	29.40	29.40	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

MAY/JUNE 2011 Surface Water

* out of range - J8
6-12-11
IR

May/June 2011

TPSWCCS - 13

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none">- Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm- Conduct daily prior to use or if CCV fails	<ul style="list-style-type: none">- Read after pressing "Calibrate"- 1 standard at the low end of expected sample reading range but no less than 100 uS/cm- Must be within $\pm 5\%$ of TV	<ul style="list-style-type: none">- Read at the end of the event, or within 24 hrs of initial calibration, whichever is less.- Read only (do not press "calibrate")- Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
6-14-11	17:07	IR	P832 155414	G.T. 1A B334	30,000 μ S	53,827.96	N		J8
"	17:12	IC/ICV	"	"	"	PCC = 1.000 @ 49,996.32	Y	verified @ 49,852.22	J8
"	17:15	CW	"	G.T. 0AH388	25,000 μ S	25,511.5	Y		J8
"	17:17	CW	"	G.T. 0AK080	100,000 μ S	100,093.79	Y		J8

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

May/June 2011
TPSWCCS-2B

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none">- Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm- Conduct daily prior to use or if CCV fails	<ul style="list-style-type: none">- Read after pressing "Calibrate"- 1 standard at the low end of expected sample reading range but no less than 100 uS/cm- Must be within $\pm 5\%$ of TV	<ul style="list-style-type: none">- Read at the end of the event, or within 24 hrs of initial calibration, whichever is less.- Read only (do not press "calibrate")- Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
5-19-11	14:26	IR	PDR 177085	G.T. 1A2336	50,000 μ S	51,081.96	y		jt
	14:39	IC/ICV	"	"	"	PLC = 0.943 @ 50,310.01	y	verified @ 49,608.87	jt
	14:46	CCV	"	G.T. 0A2388	25,000 μ S	24,974.13	y		jt
	14:50	CCV	"	G.T. 0A2080	100,000 μ S	99,129.31	y		jt

¹ - I = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

May/June 2011

TPSWCCS-2B

FPL Turkey Point Monitoring Plan
Field Instrument Calibration Form

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
 Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
 Quarterly verification at temperatures above and below the range
 of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
5-19-11	14:52	probe 177085	15050222 5044349	33.14	33.0	y ✓		JS

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPSWCCS-3B
May/June 2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
6-11	13:07	IR	156361	G.T. 1AB336	50,000	50,742	Y		SH
	13:13	IC/ICV	"	"	"	PCC=1.001 @ 49,892	Y	verified @ 49,303	SH
	13:17	CCV	"	G.T. 0AH380	25,000	25,222	Y		SH
	13:19	CCV	"	G.T. 0AK680	100,000	99,950	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPSWCCS-4T/B

May/June 2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
6/9/11	10:41	IR	156473 (T)	GEOTECH 1AB336	50,000	50,340	Y		SH
	10:47	IC/ICV	"	"	50,000	RC=0.992 @50,410	Y	Verified @ 49,702	SH
	10:50	CCV	"	GEOTECH OAH388	25,000	25,179	Y		SH
	10:52	CCV	"	GEOTECH OAK080	100,000	101,326	Y		SH
6/9/11	11:27	IR	155834 (B)	G-T. 1AB336	50,000	50,869	Y		SH
	11:35	IC/ICV	"	"	"	RC=1.005 @ 49,749	Y	Verified @ 49,769	SH
	11:37	CCV	"	G-T. OAH388	25,000	25,369	Y		SH
	11:39	CCV	"	G-T. OAK080	100,000	101,745	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPSWCCS-41 T/B
May/June 2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: **Temperature, water**

FDEP-SOP Reference: **FT1400**

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
6/9/11	11:01	156473 (T)	15050222 15044349	29.70	29.7	Y		SH
6/9/11	11:43	155834 (B)	"	29.29	29.3	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPSWCCS-58/h

May/June 2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
6/9/11	16:44	IR	156471 (T)	GEOTECH 1A3336	50,000	51,184	Y		SH
	16:52	IC/ICV	"	"	"	RC=1.010 @49,473	Y	verified @ 49,846	SH
	16:55	CCV	"	GEOTECH OAH388	25,000	24,989	Y		SH
	16:56	CCV	"	GEOTECH OAK080	100,000	99,660	Y		SH
6/9/11	17:04	IR	164536(B) 9-T. 155886	SPN 1A3336	50,000	3,827	N	probe replaced w/#155886	SH
	17:12	IC/ICV	155886	"	"	RC=1.003 @49,814	Y	verified @ 49,997	SH
	17:16	CCV	"	9-T. OAH388	25,000	24,990	Y		SH
	17:18	CCV	"	9-T. OAK080	100,000	99,651	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

CCS +
TPSM CCS - 6 T/B
88
May/June 2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
6/14/11	14:18	IR	156297 (D)	Geotech Lot 1A0336 Exp 2/2012	50,000	50,602	Y		SH
6/14/11	14:25	IC/ICV	156297	Geotech Lot 1A0336 Exp 2/2012	50,000	RC = 1.011 @ 49,325	Y	verified @ 49,589	SH
6/14/11	14:27	CCV	156297	Geotech Lot 0A11388 Exp 8/2011	25,000	25,425	Y		SH
6/14/11	14:28	CCV	156297	G-T-0A12080	100,000	99,614	Y		SH
6/14/11	14:31	IR	164475 (B)	Geotech Lot 1A0336 Exp 2/2012	50,000	50,504.3	Y	t = 35.2°	JFV
6/14/11	15:17	IC/ICV	164475	Geotech Lot 1A0336 Exp 2/2012	50,000	RC = 0.989 @ 49,829.7	Y	t = 34.5° verified at t = 34.5 / 49,545.4 uS/cm	JFV
6/14/11	15:22	CCV	164475	Geotech Lot 0A11388 Exp 8/2011	25,000	25,043.6 uS/cm	Y	t = 33.9	JFV
6/14/11	15:24	CCV	164475	G-T-0AK080	100,000	98,144.1	Y	t = 33.5	JFV

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPSWCCS-1688

May/June 2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: **Temperature, water**

FDEP-SOP Reference: **FT1400**

QAPP Requirements: Monthly verification against NIST-traceable thermometer
 Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
 Quarterly verification at temperatures above and below the range
 of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
6/14/11	SRH 14:10 14:37	156297 (T)	SN 15050222 Housing TPX 100 SN 15044349	31.6	31.2°	Y	AT 200, SN 156297	JFV
6/14/11	15:24	164475 (B)	SN 15050222 TPX 100 SN 15044349	31.8	31.5	Y	AT 100, SN 164475	JFV

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

*
IR out of
range -
JG
6.17.11

TPSUCCS-7B

May/June 2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
6-1-11	15:08	IR	155247 (B)	G-T-1A B334	50,000	57,445.86	N		JG
"	15:12	IC/ICV	"	"	"	all = 0.983 @ 50,183.3	Y	revised @ 49,795.66	JG
"	15:16	CCV	"	G-T-0AH388	25,000	25,222.97	Y		JG
"	15:19	CCV	"	G-T-0AK080	100,000	99,982.17	Y		JG

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

May/June 2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

TPSWC-1

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
05-26-11	16:29	IR	probe 15590 (A)		12,880	12,127.57	y		JA
"	16:32	IC/ICV	"		"	RC=1.012 @ 12,711.92	y	worked @ 12,819.48	JA
"	16:35	CCV	"		1,000	1,030.80	y		JA
"	16:37	CCV	"		25,000	24,858.88	y		JA
"	16:43	IR	probe 15589 (B)		12,880	12,848.83	y		JA
"	16:45	IC/ICV	"		"	RC=1.007 @ 12,789.22	y	worked @ 12,871.13	JA (B)
"	16:47	CCV	"		1,000	1,039.05	y	probe v32sec. fast.	JA
"	16:48	CCV	"		25,000	25,124.10	y		JA

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

May/June 2011
TPSWC-1

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments	Calibration verified by
5-25-11	16:39	Probe 155906	15050222 15044849	29.87	29.6	y		JA
"	16:49	Probe 155896(6)	"	30.05	29.6	y		JA

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

May/June 2011

TPSWC-2

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 $\mu\text{S}/\text{cm}$ Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 $\mu\text{S}/\text{cm}$ Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading ($\mu\text{S}/\text{cm}$)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
05-25-11	14:40	IR	Probe 156485(7)		12,880 μS	12,744.98	y	AT200 clock ~30 sec. fast	JS
"	14:44	IC/ICV	"		"	PCC = 1.014 @ 12,689.62	y	unverified @ 12,665.06	JS
"	14:50	CCV	"		1,000 μS	1025.44	y		JS
"	14:54	CCV	"		25,000 μS	24,989.88	y		JS
"	15:03	IR	Probe 156188(6)		12,820 μS	12,306.08	y		JS
"	15:10	IC/ICV	"		"	PCC = 1.005 @ 12,797.70	y	unverified @ 12,792.42	JS
"	15:15	CCV	"		1,000 μS	1033.86	y		JS
"	15:18	CCV	"		25,000 μS	24,838.38	y		JS

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPSWC-2

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

May/June 2011
TPSWC-3

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none">- Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm- Conduct daily prior to use or if CCV fails	<ul style="list-style-type: none">- Read after pressing "Calibrate"- 1 standard at the low end of expected sample reading range but no less than 100 uS/cm- Must be within $\pm 5\%$ of TV	<ul style="list-style-type: none">- Read at the end of the event, or within 24 hrs of initial calibration, whichever is less.- Read only (do not press "calibrate")- Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
05-25-11	12:30	IR	Probe 155379(T)		12,880 uS	12,470.00	y		JA
"	12:45	IC/ICV	"		"	PCC = 1.010 @ 12,740.32	y	verified @ 12,740.11	JA
"	12:50	CCV	"		1,000 uS	1,017.88	y		JA
"	12:54	CCV	"		25,000 uS	25,164.78	y		JA
"	12:59	IR	Probe 156376(B)		12,880 uS	12,644.59	y		JA
"	13:02	IC/ICV	"		"	PCC = 1.002 @ 12,832.31	y	verified @ 12,782.52	JA
"	13:07	CCV	"		1,000 uS	1,042.32	y	AT100 time ~ 1 min fast.	JA
"	13:09	CCV	"		25,000 uS	25,115.83	y		JA

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

May/June 2011
TPSWC-3

FPL Turkey Point Monitoring Plan
Field Instrument Calibration Form

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
5-25-11	12:56	Probe 155379	15050222 15044349	33.42	33.2	Y		df
"	13:12	Probe 156376	"	33.23	32.9	Y		df

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

May/June 2011

TPSWC-4

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
5-25-11	10:53	IR	probe 156634	G-T. 1A1336	50,000	49,939.95	y		JA
"	10:58	IC/ICV	"	"	"	PCC = 1.008 @ 49,714.23	y	verified @ 49,717.68	JA
"	11:03	CCV	"	G-T. 0AH388	25,000	25,344.09	y	batteries changed. AT200 still	JA
"	11:06	CCV	"	G-T. 0A1080	100,000	99,695.24	y	reads low power.	JA
5-25-11	11:13	IR	probe 156155	G-T. 1A1336	50,000	50,110.15	y		JA
"	11:17	IC/ICV	"	"	"	PCC = 1.013 @ 49,272.63	y	verified @ 49,464.62	JA
"	11:22	CCV	"	G-T. 0AH388	25,000	25,219.27	y		JA
"	11:24	CCV	"	G-T. 0A1080	100,000	99,044.94	y		JA

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

May/June 2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

TPSWC-5

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 $\mu\text{S}/\text{cm}$ Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 $\mu\text{S}/\text{cm}$ Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading ($\mu\text{S}/\text{cm}$)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
05-31-11	10:20	IR	Probe 155425(+)	G-T-0A1380	50,000 μS	50,181	Y		SH
"	10:23	IC/ICV	"	"	M	PCL = 1.004 49,768	Y	verified @ 49,579.21	SH
"	10:30	CCV	"	G-T-0A1380	25,000 μS	25,050	Y		SH
"	10:33	CCV	"	G-T-0A1380	100,000 μS	99,941	Y		SH
5-31-11	10:41	IR	Probe 156164(6)	G-T-0A1380	50,000 μS	49,725	Y		SH
"	10:44	IC/ICV	"	"	"	PCL = 1.006 49,732	Y	verified @ 49,998.95	SH
"	10:46	CCV	"	G-T-0A1380	25,000 μS	25,363	Y		SH
"	10:50	CCV	"	G-T-0A1380	100,000 μS	100,861	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPSWC-5

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPSWIO-1
May/June 2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
6-1-11	16:25	IR	156062 (T)	G-T. 1AB336	50,000	49,347	Y		SH
"	16:30	IC/ICV	"	"	"	PLC = 0.994 @ 50,000	Y	verified @ 49,786	SH
"	16:33	CCV	"	G-T. 0AH338	25,000	25,307	Y		SH
"	16:34	CCV	"	G-T. 0AK080	100,000	100,032	Y		SH
"	16:41	IR	155421 (6)	G-T. 1AB336	50,000	49,867	Y		SH
"	16:46	IC/ICV	"	"	"	PLC = .990 @ 50,000	Y	verified @ 49,729	SH
"	16:47	CCV	"	G-T. 0AH338	25,000	25,239	Y		SH
"	16:50	CCV	"	G-T. 0AK080	100,000	100,421	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

May/June 2011
TPSWID-1

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
6-1-11	16:39	156062 (T)	15050222 15044349	28.34	28.2	Y		SH
6-1-11	16:53	155421 (6)	"	28.15	27.9	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

May/June 2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
6-1-11	14:16	IR	155346 (T)	G-T. 1AB336	50,000	50,346	Y		SH
"	14:20	IC/ICV	"	"	"	PCC=1.003 @ 49,852	Y	verified @ 49,430	SH
"	14:24	CCV	"	G-T. 0AH388	25,000	25,382	Y		SH
"	14:26	CCV	"	G-T. 0AK088	100,000	100,860	Y		SH
6-1-11	14:33	IR	151997 (B)	G-T. 1AB336	50,000	50,090	Y		SH
"	14:38	IC/ICV	"	"	"	PCC=0.997 @ 50,102	Y	49,329	SH
"	14:39	CCV	"	G-T. 0AH388	25,000	24,978	Y		SH
"	14:42	CCV	"	G-T. 0AK088	100,000	100,230	Y		SH

I = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

0.998263
25.36393

May/June 2011

TPSWID-3

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
6-1/11	12:03	IR	Pine 156128(B)	G-T. 1A8336	50,000 25,000 (SH) MS	50,488	Y		SH
6-1/11	12:06	IC/ICV	"	"	"	PLC = 0.995 50,293	Y	verified @ 49,878	SH
"	12:10	CCV	"	G-T. 0A H388	25,000 12,000 (SH) MS	25,366	Y		SH
"	12:11	CCV	"	G-T. 0AK080	100,000 50,000 (SH) MS	100,615	Y		SH
"	12:18	IR	Pine 157516	G-T. 1A8336	50,000 25,000 (SH) MS	50,443	Y		SH
"	12:22	IC/ICV	"	"	"	PLC = 0.999 @ 50,106	Y	verified @ 49,803	SH
"	12:25	CCV	"	G-T. 0A H388	25,000 12,000 (SH) MS	25,446	Y		SH
"	12:26	CCV	"	G-T. 0AK080	100,000 50,000 (SH) MS	99,791	Y		SH
					to				

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

May/June 2011

TPSWID-3

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: **Temperature, water**

FDEP-SOP Reference: **FT1400**

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
6-1/11	12:14	probe 156128 (B)	15050222 5044349	30.49	30.2	Y	.	SH
"	12:29	probe 15751611	"	31.5	31.2	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

JUNE 2011

Biscayne Bay Surface Water

New BBSW-1
June, 2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none">- Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm- Conduct daily prior to use or if CCV fails	<ul style="list-style-type: none">- Read after pressing "Calibrate"- 1 standard at the low end of expected sample reading range but no less than 100 uS/cm- Must be within $\pm 5\%$ of TV	<ul style="list-style-type: none">- Read at the end of the event, or within 24 hrs of initial calibration, whichever is less.- Read only (do not press "calibrate")- Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
6/24/11	17:51	IC	151386	6EOTECH 1A8336 2/12	50,000	PCL=1.600 @ 49,995	Y	TEMP = 30.38°C	SH
"	17:52	ICV	"	"	"	49,830	Y	TEMP = 30.74°C	SH
"	17:35	CCV	"	6EOTECH 1A0234 4/12	25,000	24,395	Y	TEMP = 30.33°C	SH
"	17:36	CCV	"	6EOTECH 1A0232 4/12	100,000	100,451	Y	TEMP = 29.68°C	SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

BBSW-1

June 2011

FPL Turkey Point Monitoring Plan
Field Instrument Calibration Form

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
 Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
 Quarterly verification at temperatures above and below the range
 of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
6/20/11	17:44	151386	15050222 15044349	30.74	30.6	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

NEW BBSW-2
June, 2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none">- Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm- Conduct daily prior to use or if CCV fails	<ul style="list-style-type: none">- Read after pressing "Calibrate"- 1 standard at the low end of expected sample reading range but no less than 100 uS/cm- Must be within $\pm 5\%$ of TV	<ul style="list-style-type: none">- Read at the end of the event, or within 24 hrs of initial calibration, whichever is less.- Read only (do not press "calibrate")- Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
6/20/11	17:08	IC	155924	GEOTECH 1A8336 2/12	50,000	ACC=1.008 @49,594	Y	TEMP=30.33°C	SH
"	17:10	ICV	"	"	"	49,917	Y	TEMP=30.71°C	SH
"	17:12	CCV	"	GEOTECH 1A9234 4/12	25,000	24,451	Y	TEMP=30.08°C	SH
"	17:16	CCV	"	GEOTECH 1A9232 4/12	100,000	100,709	Y	TEMP=29.54	SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

BBSW-2
June 2011

FPL Turkey Point Monitoring Plan
Field Instrument Calibration Form

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
6/30/11	17:22	155924	15050322 15044349	30.70	30.7	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

BBSW-3
June 2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
6/27/11	13:48	IR	156060	GROHER LAB336	50,000	51,194	Y		SH
"	13:53	IC/ICV	"	"	50,000	PCC=0.985 @50,736	Y	verified @ 49,476	SH
"	13:55	CCV	"	GROHER (AD234	25,000	25,111	Y		SH
"	13:57	CCV	"	GROHER OAK-080	100,000	99,798	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

New BBSW-4
replacement.

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
6/20/11	16:42	IC	18615	6EOTECH 1A8336 2/12	50,000	ICC = 1.009 @49,492	Y	Temp = 30.20 °C	SH
"	16:44	ICV	"	"	50,000	49,934	Y	Temp = 30.32 °C	SH
"	16:48	CCV	"	6EOTECH 1A0234 4/12	25,000	24,361	Y	Temp = 29.976	SH
"	16:52	CCV	"	6EOTECH 1A0232 4/12	100,000	100,865	Y	Temp = 29.714	SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

FPL Turkey Point Monitoring Plan

Field Instrument Calibration Form

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
 Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
 Quarterly verification at temperatures above and below the range
 of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
6/26/11	17:01	186115	15050222 15044349	30.74	30.7	Y		SH.

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

New BBSW-5
June, 2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value, range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
6/20/11	17:58	IC	157235	GEOTECH 1AB336 3/12	50,000	PCC=1.018 @ 49,087	Y	TEMP = 30.70°C	SH
"	17:59	ICV	"	"	"	50,105	Y	TEMP = 31.02°C	SH
"	18:02	CCV	"	GEOTECH 1A0234 4/12	25,000	24,504	Y	TEMP = 30.43°C	SH
"	18:05	CCV	"	GEOTECH 1A0232 4/12	100,000	100,215	Y	TEMP = 30.08°C	SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

BBSU-45
June 2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
6/26/11	18:09	157235	15056222 15644349	30.60	30.6	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

BBSW-14

June 2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
6/22/11	9:40	IR	156284	Geochem 1A8336	50,000	50,285	Y		SH
"	9:45	IC/ICV	"	"	50,000	PCC=1.018 @49,121	Y	Verified @ 49,367 TEMP=30.12°C	SH
"	9:47	CCV	"	Geochem 1A0234	25,000	24,518	Y	TEMP=30.27°C	SH
"	9:48	CCV	"	Geochem 0A1080	100,000	101,618	Y	T=30.30°C	SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

BB5W-14

June 2011

FPL Turkey Point Monitoring Plan
Field Instrument Calibration Form

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
6/23/11	9:50	15628 ^u	15050222 15044349	29.10	29.1	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

JULY 2011 Groundwater

**FPL Turkey Point Monitoring Plan
Field Instrument Calibration Form**

TP6W-15.
July 2011

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
7/6/11	12:21	IC	156275	Geotech 1A6267	50,000	49,135	Y		SH
"	12:25	IC/ICV	"	"	50,000	RC = 0.994 49,359	Y	verified @ 49,930	SH
"	12:28	CCV	"	Geotech 1AD234	25,000	25,149	Y		SH
"	12:29	CCV	"	Geotech 1AD232	100,000	98,826	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

July 2011

FPL Turkey Point Monitoring Plan
Field Instrument Calibration Form

Parameter: Specific conductance

TPGW / M

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

7/29/11
SRH

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
7/29/11	11:22	IK	156174	beotech 1A6267	100,000 50,000	49,091	Y		π
"	11:25	IC/ICV	"	"	50,000	PCC = 0.987 @50,637	Y	Ver. Fied @ 49,612	π
"	11:29	ICV	"	beotech 1A-D234	25,000	24,811	Y		π
"	11:31	CCV	"	beotech 1A-D232	100,000	99,251	Y		π

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

**FPL Turkey Point Monitoring Plan
Field Instrument Calibration Form**

July 2011

TPGWID

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
7/26/11	1403	IR	156132	Geotech 1AD232	100,000	100,020	Y		TT
"	1419	IC/ICV	"	Geotech 1A6267	57,000	PCC=1.601 @ 49971.28	Y	verified = 50965	TT
"	1420	CCV	"	Geotech 1AD234	25,000	25,360	Y		TT
"	1421	CCV	"	Geotech 1AD232	100,000	99,970	Y		TT
7/26/11		IR							TT
		IC/ICV							TT
		CCV							TT
		CCV							TT

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

**FPL Turkey Point Monitoring Plan
Field Instrument Calibration Form**

TP6W-2S
July 2011

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
7/21/11	16:41	IR	15623	Crovel 0AK080	100,000	SH 101,999 101,999	Y		SH
"	16:44	ICV	"	Greotech 1A8336	50,000	PLC=0.980 @ 50,981	Y	Verified @ 49,637	SH
"	16:47	CCV	"	Greotech 1A0234	25,000	25,263	Y		SH
"	16:49	CCV	"	Greotech 0AK080	100,000	99,402	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

July 2011

FPL Turkey Point Monitoring Plan
Field Instrument Calibration Form

TP GW-2M

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
7/21/11	16:01	IR	155882	G.T. 0AK080	100,000	101,586	Y		TT
	16:07	IC/ICV	"	G.T. 1A0336	50,000	PCC = 0.991 @ 50,521	Y	verified = 49,505	TT
	16:09	CCV	"	G.T. 1A0234	25,000	25,038	Y		TT
	16:10	CCV	"	G.T. 0AK080	100,000	98,866	Y		TT

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

July 2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

TP 9W-2D

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
7/2/11	1514	IR	155887	G-T. 0AK080	100,000	100,612	Y		TT
	1517	IC/ICV	"	G-T. 1AB336	50,000	PCC=1.003 @ 49783	Y	verified = 49695	TT
	1521	CCV	"	G-T. 1AD234	25,000	25284	Y		TT
	1524	CCV	"	G-T. 0AK080	100,000	99825	Y		TT
7/2/11		IR			100,000				
		IC/ICV			50,000	PCC = @		verified =	
		CCV			25,000				
		CCV			100,000				

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TP6W-35

July 2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
7/18/11	14:40	IR	1561841	Prokela 1A8334	50,000	50,202	Y		SM
7/18/11	14:45	IC/ICV	"	"	50,000 25,000 SM	ICC = 0.993 @ 50,334	Y	verified @ 49,730	SM
	14:47	CCV	"	G.T. 1A0234	25,000	24,750	Y		SM
	14:50	CCV	"	G.T. 0A0080	100,000	99,539	Y		SM

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TP6W-3M

July 2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 $\mu\text{S}/\text{cm}$ - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 $\mu\text{S}/\text{cm}$ - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading ($\mu\text{S}/\text{cm}$)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
7/18/11	13:59	IC	156003	GNDHEM 1A18336	50,000	50,136	Y		SH
	14:01	IC/ICV	"	"	50,000 25,000	PCC = 1.0041 @ 49,799	Y	Verified @ 49,811	SH
	14:06	CCV	"	G-T. 1A0234	25,000	25,051	Y		SH
	14:09	CCV	"	G-T. 0AK080	100,000	99,897	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TP6W-30

July 2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
7/18/11	13:12	IR	157230	Grochem 1AB336	50,000	50,562	Y		SH
"	13:16	IC/ICV	"	"	50,000	PLC=0.990 @50,527	Y	Verified @ 50,125	SH
"	13:19	CCV	"	G.T. 1AD234	25,000	25,057	Y		SH
"	13:21	CCV	"	G.T. 0AK080	100,000	100,279	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TP6W-45

July 2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
7/12/11	14:26	IR	151977	Grover 1A3217	1,000	1,047	Y		SH
"	14:31	IC/ICV	"	Grover 0A67114	12,880	PCC = 0.993 @ 12,954	Y	verified @ 12,776	SH
"	14:33	CCV	"	Grover 1A3217	1,000	1,014	Y		SH
"	14:35	CCV	"	Grover 0A4388	25,000	24,954	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TP6W-45

QAPP Requirements:

- Monthly verification against NIST-traceable thermometer
- Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
- Quarterly verification at temperatures above and below the range of sample readings for the quarter

**FPL Turkey Point Monitoring Plan
Field Instrument Calibration Form**

TP6W-4M

July 2011

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
7/13/11	15:43	IR	155929	Green 1A8336	50,000	50,388	Y		SH
"	15:53	IC/ICV	"	Green 0A61148	25,000	PCC = 0.978 25,538	Y	Verified @ 24,821	SH
"	15:55	CCV	"	Green 0A4388	12,880	12,614	Y		SH
"	15:58	CCV	"	1A8336	50,000	49,175	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

**FPL Turkey Point Monitoring Plan
Field Instrument Calibration Form**

TP6W-40
new probe.
July 2011

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
7/12/11	15:16	IC	190468	Green 0A4388	25,000	→	Y	PCC = 1.029 @ 24,325	SH
"	15:17	ICV	"	"	25,000	25,120	Y		SH
"	15:19	CCV	"	Green 0A67114	12,880	12,847	Y		SH
"	15:22	CCV	"	Green 1A8336	50,000	49,184	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

TP6W-SS.
July 2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
7/29/11	15:40	IR	156157	Geotech 1AB217	1,000	1,050	Y	right on 5% check this.	SH
"	15:55	IC/ICV	"	Geotech 0AK079	12,880	Dec: 1041 @ 12,385	Y	verified @ 12,849	SH
"	15:57	CCV	"	Geotech 1AB217	1,000	1,076	N	will return w/ cleaning solution	SH
"		CCV	"		25,000	(11)		and or new probe. Dropping back for now	

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

**FPL Turkey Point Monitoring Plan
Field Instrument Calibration Form**

TP6W-5M
July 2011

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
7/29/11	15:10	IR	155536	Geotech 1A-D234	25,000	24,949	Y		SH
"	15:13	IC/ICV	"	"	25,000	RC = 1.003 @ 24,896	Y	verified @ 24,857	SH
"	15:14	CCV	"	Geotech OAK079	12,880	12,717	Y		SH
"	15:16	CCV	"	Geotech 1A-G267	50,000	50,101	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

FPL Turkey Point Monitoring Plan

Field Instrument Calibration Form

**FPL Turkey Point Monitoring Plan
Field Instrument Calibration Form**

TP6W-50

July 2011

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
7/25/11	14:20	IR	155939	Beutech 1AD234	25,000	24,027	Y		SH
"	14:39	IC/ICV	"	"	25,000	PCC=1.043 @ 23,974	Y	Verified @ 25,088	SH
"	14:40	CCV	"	Beutech 0AK079	12,880	12,645	Y		SH
"	14:48	CCV	"	Beutech 1AG267	50,000	49,890	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TP6W-5D
July 2011

FPL Turkey Point Monitoring Plan
Field Instrument Calibration Form

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
7/29/11	14:44	155539	15280222 15044349	40.09	39.8	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TP6W-65
July 2011

**FPL Turkey Point Monitoring Plan
Field Instrument Calibration Form**

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
7/13/11	12:28	IR	155878	G.T. 1A B217	1,000	1,032	Y		SH
"	12:32	IC/ICV	"	G.T. 0A G114	12,880	PCL = 0.995 @ 12,935	Y	Verified @ 12,855	SH
"	12:33	CCV	"	G.T. 1A B217	1,000	1,000	Y		SH
"	12:37	CCV	"	G.T. 0A H388	25,000	25,179	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

TP6W-6M
July 2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
7/13/11	11:41	IR	155915	120.00 0A4388	25,000	25,124	Y		SH
"	11:47	IC/ICV	"	"	25,000	PCC = 0.983 @25,128	Y	verified @ 24,999	SH
"	11:49	CCV	"	G.T. 0A6114	12,880	12,742	Y		SH
"	11:52	CCV	"	G.T. 1A3336	50,000	49,131	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

TP6W-6D

July 2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
7/13/11	10:59	IR	155907	G.T. 0A4388	25,000 50,000	25,472	Y		SH
"	11:03	IC/ICV	"	"	25,000	rec=0.983 e 25,406	Y	verified @ 24,924	SH
"	11:06	CCV	"	G.T. 0A6114	12,580	12,720	Y		SH
"	11:10	CCV	"	G.T. 1A8336	50,000	49,233	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

TP6W-75
July 2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none">- Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm- Conduct daily prior to use or if CCV fails	<ul style="list-style-type: none">- Read after pressing "Calibrate"- 1 standard at the low end of expected sample reading range but no less than 100 uS/cm- Must be within $\pm 5\%$ of TV	<ul style="list-style-type: none">- Read at the end of the event, or within 24 hrs of initial calibration, whichever is less.- Read only (do not press "calibrate")- Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
7/10/11	12:20	IR	156138	Green 1A3217	1,000	1,013	Y		SH
"	12:24	IC/ICV	"	Green 2A67114	12,880	PCC=0.980 @13,119	L 1	verified @ 12,746	SH
"	12:27	CCV	"	Green 1A3217	1,000	1,005	Y		SH
"	12:29	CCV	"	Green 0AH388	25,000	24,886	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

FPL Turkey Point Monitoring Plan
Field Instrument Calibration Form

TP6W-7M
 July 2011

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
7/12/11	11:34	IR	156362	Grover 1AB217	1,000	1,013	Y		SH
"	11:37	IC/ICV	"	Grover 0AC7114	12,880	PCC = 0.995 @ 12,941	Y	vv. find @ 12,810	SH
"	11:41	ICV	"	Grover 1AB217	1,000	1,011	Y		SH
"	11:46	CCV	"	Grover 0A#388	25,000	25,070	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications, all corrective actions taken, any maintenance performed.

TP6W-79
July 2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
7/12/11	10:57	IR	157236	Grover 1A0217	1,000	1,012	Y		SH
"	11:00	IC/ICV	"	Grover 0A6214	12,880	RC=0.994 @12,949	Y	verified @ 12,843	SH
"	11:01	CCV	"	Grover 1A0217	1,000	992	Y		SH
"	11:04	CCV	"	Grover 0A4388	25,000	25,153	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

FPL Turkey Point Monitoring Plan

Field Instrument Calibration Form

TP6W-85
July 2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
7/11/11	16:18	IC	155890	Groher LAB217	1,000	1,016	Y		SH
"	16:21	IC/ICV	"	Groher 6AC1114	12,880	PCC=0.991 @12,993	Y	verified @ 12,870	SH
"	16:23	CCV	"	Groher LAB217	1,000	1,028	Y		SH
"	16:25	CCV	"	Groher LAB234	25,000	25,115	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TP6W-8M
July 2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
7/11/11	15:37	IR	154937	GROHEM 1AB217	1,000	1,016	Y		SH
"	15:42	IC/ICV	"	GROHEM 0AC7114	12,880	PCC=0.989 @12,998	Y	Ver. Read @ 12,743	SH
"	15:45	CCV	"	GROHEM 1AB217	1,000	1,022	Y		SH
"	15:46	CCV	"	GROHEM 1A0234	25,000	24,908	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TP64-8D
July 2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
7/11/11	14:52	IC	154926	Grover 1A0217	1,000	1,021	Y		SH
"	14:59	IC/ICV	"	Grover 8A0114	12,880	PCC=0.985 @12,870	Y	verification @ 12,873	SH
"	15:01	CCV	"	Grover 1A0217	1,000	984	Y		SH
"	15:04	CCV	"	Grover 1A0234	25,000	25,026	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TP6W-95
July 2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
7/11/11	12:20	IR	155889	Geotech LAB217	1,000	1,035	Y		SH
"	12:23	IC/ICV	"	Geotech OAC7114	12,880	RCC = 0.990 @ 2,995	Y	Ver. f. w. @ 12,806 SI	SH
"	12:26	CCV	"	Geotech LAB217	1,000	1,030	Y		SH
"	12:30	CCV	"	Geotech IAD234	25,000	25,014	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPBW-9M
July 2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
7/11/11	11:40	IR	156175	Groher LAB217	1,000	1,028.73	Y		SH
"	11:50	IC/ICV	"	Groher LAB217	12,880	PCC=1.000 @12,872	Y	Verified @ 12,839.66	SH
"	11:52	CCV	"	Groher LAB217	1,000	1,026	Y		SH
"	11:54	CCV	"	Groher LAB217	25,000	25,191	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TP6W-9D

July 2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none">- Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm- Conduct daily prior to use or if CCV fails	<ul style="list-style-type: none">- Read after pressing "Calibrate"- 1 standard at the low end of expected sample reading range but no less than 100 uS/cm- Must be within $\pm 5\%$ of TV	<ul style="list-style-type: none">- Read at the end of the event, or within 24 hrs of initial calibration, whichever is less.- Read only (do not press "calibrate")- Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
7/11/11	11:06	IR	155855 155874 ^{SH}	G2000A 1A0217	1,000	997	Y		SH
"	11:13	IC/ICV	"	G2000A 0A6114	12,880	12,740 12,740	Y	verified @ 12,865.77	SH
"	11:15	CCV	"	G2000A 1A0217	1,000	1,014	Y		SH
"	11:17	CCV	"	G2000A 1A0234	25,000	25,174	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

**FPL Turkey Point Monitoring Plan
Field Instrument Calibration Form**

TP6W-10S
July 2011

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
6/22/11	15:35	IR	165871	720 uS/cm 1A3336	50,000	50,577	Y	TEMP=32.10	SH
"	15:38	IC/ICV	"	"	"	ACC=1.001 @49,905	Y	verified @50,161 TEMP=32.57	SH
"	15:39	CCV	"	720 uS/cm 1A0234	25,000	25,454	Y	TEMP=32.47	SH
"	15:41	CCV	"	720 uS/cm 0AK080	100,000	99,929	Y	TEMP=32.32	SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TP6W-10M

July 2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
6/22/11	15:10	IR	164529	Green IAB336	50,000	50,567	Y	TEMP = 31.65°C	SH
"	15:14	IC/ICV	"	"	"	RCC = 0.991 @ 50,455	Y	verified @ 19,895 TEMP = 31.58	SH
"	15:15	CCV	"	Green IAD234	25,000	25,407	Y	TEMP = 32.13	SH
"	15:16	CCV	"	Green OAK080	100,000	98,860	Y	TEMP = 31.88	SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TP6W-100

July 2011

**FPL Turkey Point Monitoring Plan
Field Instrument Calibration Form**

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
6/22/11	14:43	IC	168177	Green LAB336	50,000	50,050	Y	TEMP = 33.65°C	SH
"	14:47	IC/ICV	"	"	"	RCC = 0.996 @ 50,150	Y	verified @ 49,250 TEMP = 33.46	SH
"	14:49	CCV	"	Green 1A0234	25,000	25,524	Y	TEMP = 33.38	SH
"	14:51	CCV	"	Green 0A080	100,000	99,219	Y	TEMP = 32.46	SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TP6W10-S
July 2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
8/5/11	11:11	IC	165871	beutech 1A6267	50,000	50,737	Y		SH
"	11:18	IC/ICV	"	"	50,000	PCC=0.988 @50,587	Y	verified @ 49,400	SH
"	11:20	CCV	"	beutech 1A6234	25,000	24,742	Y		SH
"	11:22	CCV	"	beutech 1A6232	100,000	97,106	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TP6W-10M.
July 2011

**FPL Turkey Point Monitoring Plan
Field Instrument Calibration Form**

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
8/2/11	10:26	IR	164529	Geotech 1A6267	50,000	50,123	Y		SH
"	10:31	IC/ICV	"	"	50,000	PCC=0.994 @50,239	Y	Verified @ 49,817	SH
"	10:38	CCV	"	Geotech 1AD234	25,000	24,404	Y		SH
"	10:40	CCV	"	Geotech 1AD232	100,000	98,307	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

July 2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

B BTP GW 10 D

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
8/2/11	9:28	IC	168177	Geotech 1A47267	50,000	49,744	Y		TT
"	9:31	IC/ICV	"	"	50,000	RL=1.005 @49,730	Y	verified @ 49,996	TT
"	9:33	CCV	"	Geotech 1AD234	25,000	24,612	Y		TT
"	9:35	CCV	"	Geotech 1AD232	100,000	99,874	Y		TT

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

July 2011
TP6W-10D

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
8/2/11	9:37	168177	15050222 15044349	29.85	29.6	Y		SH.

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TP6W-11S.

July 2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
6/22/11	13:04	IR	165269	GROKER 1A8336	50,000	50,703	Y	TEMP = 33.64	SH
"	13:08	IC/ICV	"	"	"	PLC = 0.999 @ 49,993	Y	verified @ 49,839 TEMP = 33.26	SH
"	13:10	CCV	"	GROKER 1A234	25,000	25,195	Y	TEMP = 34.22	SH
"	13:11	CCV	"	GROKER 0AK080	100,000	101,025	Y	TEMP = 34.79	SH

¹ I = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

TP6W-110
July 2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
6/22/11	12:41	IR	165277	GROHEK 1A8336	50,000	49,683	Y	TEMP = 35.51°C	SH
"	12:46	IC/ICV	"	"	50,000	PCC = 1.005 @ 49,755	Y	res. flow @ 49,676 TEMP = 35.25°C	SH
"	12:48	ICV	"	GROHEK 1A0234	25,000	25,116	Y	TEMP = 35.34°C	SH
"	12:50	CCV	"	GROHEK 6AK080	100,000	100,424	Y	TEMP = 35.21	SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

July 2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

TP6 W11 S

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
8/2/11	1155	IR	165269	Geotech 1A C1267	50,000	50,550	Y		T
"	1205	IC/ICV	"	"	50,000	766 = 0.975 @ 51315	Y 1	Verifical = 49913	T
"	1206	CCV	"	Geotech 1A D234	25,000	25004	Y		T
"	1240	CCV	"	Geotech 1A D232	100,000	98007	Y		T

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

I = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

**FPL Turkey Point Monitoring Plan
Field Instrument Calibration Form**

*TPGW 11M
July 2011*

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
8/2/11	1305	IR	165283	Geotech 1A41267	50,000	50,907	Y		TT
"	1317	IC/ICV	"	"	50,000	RCC = 0.969 @ 51632	Y	verified = 49509	TT
"	1319	CCV	"	Geotech 1A0234	25,000	25019	Y		TT
"	1420	CCV	"	Geotech 1A0232	100,000	100165	Y		TT

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

July 2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

TP4W11 D

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
8/3/11	1025	IR	165277	beetech 1A67267	50,000	49635	Y		TI
"	1042	IC/ICV	"	"	50,000	49635 1.008 @ 49612	Y	Verified = 50058	TI
"	1045	CCV	"	beetech 1A0234	25,000	25172	Y		TI
"	1048	CCV	"	beetech 1A0232	100,000	102714	Y		TI

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TP6W-25
July 2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
7/13/11	15:59	IR	155925	GT. 1A0336	50,000	50,358	Y		SH
"	16:03	IC/ICV	"	"	50,000	PCC=0.989 250,531	Y	verified @ 49,883	SH
"	16:05	CCV	"	GT. 1A0234	25,000	25,096	Y		SH
"	16:07	CCV	"	GT. 0AY-080	100,000	100,026	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

TP6W-DM
July 2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
7/13/11	15:22	IR	157272	G.T. 1A3336	50,000	49,808	Y		SH
"	15:26	IC/ICV	"	G.T. 1A3336	50,000	RCC=0.983 250,508.94	Y	verified @ 49,613	SH
"	15:38	CCV	"	G.T. 1A0234	25,000	24,970	Y		SH
"	15:30	CCV	"	G.T. 0AK080	100,000	99,691	Y		SH

¹ - Indicate any failed verifications; all corrective actions taken; any maintenance performed.

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

TP6W-120
July 2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none">- Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm- Conduct daily prior to use or if CCV fails	<ul style="list-style-type: none">- Read after pressing "Calibrate"- 1 standard at the low end of expected sample reading range but no less than 100 uS/cm- Must be within $\pm 5\%$ of TV	<ul style="list-style-type: none">- Read at the end of the event, or within 24 hrs of initial calibration, whichever is less.- Read only (do not press "calibrate")- Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
7/13/11	14:39	IR	155922	G.T. 1A8336	50,000	50,383	Y		SH
"	14:45	IC/ICV	"	"	50,000	RCL=0.998 @50,096	Y	verified @ 49,652	SH
"	14:46	CCV	"	G.T. 1A9234	25,000	25,003	Y		SH
"	14:48	CCV	"	G.T. 0AF080	100,000	99,883	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TP6W-135

July 2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 $\mu\text{S}/\text{cm}$ - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 $\mu\text{S}/\text{cm}$ - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading ($\mu\text{S}/\text{cm}$)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
7/14/11	11:06	IR	155892	Green OAK880	100,000	101,834	Y		SH
"	11:10	IC/ICV	"	Green 1A8336	50,000	RC=0.998 @50,142	Y	verified @ 49,846	SH
"	11:12	CCV	"	Green 1A0234	25,000	24,937	Y		SH
"	11:13	CCV	"	Green OAK880 1A8336	100,000 50,000	100,827	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TP6W-13M
July 2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none">- Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm- Conduct daily prior to use or if CCV fails	<ul style="list-style-type: none">- Read after pressing "Calibrate"- 1 standard at the low end of expected sample reading range but no less than 100 uS/cm- Must be within $\pm 5\%$ of TV	<ul style="list-style-type: none">- Read at the end of the event, or within 24 hrs of initial calibration, whichever is less.- Read only (do not press "calibrate")- Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
7/14/11	10:33	IR	155900	Geotech OAK 080	100,000	101,041	Y		SH
"	10:37	IC/ICV	"	Geotech 1A3336	50,000	PC=0.986 250,749	Y	verified @ 49,932	SH
"	10:39	CCV	"	Geotech 1A0234	25,000	24,966	Y		SH
"	10:41	CCV	"	Geotech OAK 080	100,000	101,133	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPGW-13M
July 2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
7/14/11	10:44	155400	15050002 15044349	30.18	29.9	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TP6W-130
July 2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
7/14/11	9:58	IR	154952	Geotech 0AK080	100,000	101,803	Y		SH
"	10:01	IC/ICV	"	Geotech 1AB336	50,000	RC=1.016 @ 49,228	Y	Verified @ 50,006	SH
"	10:03	CCV	"	Geotech 1AD234	25,000	24,907	Y		SH
"	10:05	CCV	"	Geotech 0AK080	100,000	100,988	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

July 2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

TPGW 145

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
8/2/11	1515	IC	150173	Geotech 1A6267	50,000	50191	Y		TI
"	1525	IC/ICV	"	"	50,000	PLC=1.024 @ 48832	Y	verified = 49836	TI
"	1529	CCV	"	Geotech 1AD234	25,000	25098	Y		TI
"	1542	CCV	"	Geotech 1AD232	100,000	107994	N		TI

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

July 2011

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

July 2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

TPGW/4M

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
8/2/11	1454	IC	156137	Geotech 1A1227	50,000	50,851	Y		TT
"	1459	IC/ICV	"	"	50,000	$50,851 \times 1.026 = 44,048$	Y	verified = 49864	TT
"	1501	CCV	"	Geotech 1A1234	25,000	24866	Y		TT
"	1503	CCV	"	Geotech 1A1232	100,000	97229	Y		TT

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TP60-14M
July 2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
8/2/11	1503	156137	15050222 15044349	30.383	30.2	Y		TT

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

July 2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

TPGW14D

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
8/2/11	1340	IR	155905 156192	Geotech 50,216 1A6267	50,000	50,298	Y		TT
"	1345	IC/ICV	"	Geotech 1A6267	50,000	PCL = 1.027 @ 48,025	Y	verified = 50,159	TT
"	1351	CCV	"	Geotech 1AD234	25,000	25,102	Y		TT
"	1355	CCV	"	Geotech 1AD232	100,000	100,263	Y		TT

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPGW-14D
July 2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
8/2/11	1345	156192	15050222 15044319	36.508	36.5	Y		TJ

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

JULY 2011 Surface Water

July 2011

TPSWCES - 1B

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none">- Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm- Conduct daily prior to use or if CCV fails	<ul style="list-style-type: none">- Read after pressing "Calibrate"- 1 standard at the low end of expected sample reading range but no less than 100 uS/cm- Must be within $\pm 5\%$ of TV	<ul style="list-style-type: none">- Read at the end of the event, or within 24 hrs of initial calibration, whichever is less.- Read only (do not press "calibrate")- Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
7-25-11	15:36	IR	155414	C120Keh 0AK080	100,000 us	99,896.87	y		aj
"	15:40	IC/ICV	"	G-T. 1AB336	50,000 us	PLU = 0.990 @ 50,519.50	y	wired @ 49,911.37	aj
"	15:43	CCV	"	G-T. 1AD234	25,000 us	25,260.	y		aj
"	15:44	CCV	"	G-T. 0AK080	100,000 us	100,826.43	y		aj

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

**FPL Turkey Point Monitoring Plan
Field Instrument Calibration Form**

TPSWCCS-2B
July 2011

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
7/14/11	11:48	IC	177085	OAK 080 G.T.	100,000	97,440	Y		SH
"	11:54	IC/ICV	"	1AB336 G.T.	50,000	RC = 0.984 @ 50,807	Y	verified @ 49,472	SH
"	11:57	CCV	"	1A0234 G.T.	25,000	24,707	Y		SH
"	11:59	CCV	"	OAK 080 G.T.	100,000	100,520	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

July 2011
TPSW CCS-20

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
7/14/11	12:00	177085	15050222 15044394	34.9	35.1	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

July 2011

**FPL Turkey Point Monitoring Plan
Field Instrument Calibration Form**

TPSWCCS-3B

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
7-25	11:14	IR	156361	G10KEN 1AB336	50,000 μ S	51,342.50	Y		JA
"	11:18	IC/ICV	"	"	"	PLC = 0.993 @ 50,317.81	Y	works @ 49,456.88	JA
"	11:22	CCV	"	G.T. 1AD234	25,000 μ S	24,971.23	Y		JA
"	11:25	CCV	"	G.T. 0AK080	100,000 μ S	97,961.74	Y		JA

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

FPL Turkey Point Monitoring Plan
Field Instrument Calibration Form

July 2011

**FPL Turkey Point Monitoring Plan
Field Instrument Calibration Form**

TPSCCS-4T/B

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
7/22/11	1417	IR	153834 (B)	G-T. OAK080	100,00	101,141	Y		TT
"	1421	IC/ICV	"	G-T. 1A0336	50,000	PCC=0.991 @ 50,403	Y	verified = 49,567	TT
"	1424	CCV	"	G-T. 1A0234	25,000	24720	Y		TT
"	1426	CCV	"	G-T. OAK080	100,000	101,442	Y		TT
"	1435	IR	156473 (C)	G-T. "	100,000	102,504	Y		TT
"	1440	IC/ICV	"	G-T. 1A0336	50,000	PCC=0.983 @ 50,835	Y	verified = 49,652	TT
"	1442	CCV	"	G-T. 1A0234	25,000	25,652 25,014	Y		TT
"	1445	CCV	"	G-T. OAK080	100,000	101,343	Y		TT

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

July 2014
TPSW CCS-4T/B

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
7/22/11	1430	155834 (b)	15050222 15044349	34.78	34.4	Y		TI
11	1047 ⁽¹⁾	156473 (CT)	11	33.13 ⁽¹⁾ 33.13	33.1	Y		TI

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

FPL Turkey Point Monitoring Plan
Field Instrument Calibration Form

TPSWCCS-5
July 2011

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
7/27/11	1300	IR	155886 (B)	G.T. OAK080	100,000	103,692	Y		TT
"	1306	IC/ICV	"	G.T. 1A8336	50,000	PCC = .991 @ 50,503	Y	verified @ 50,148	TT
"	1307	CCV	"	G.T. 1A0234	25,000	25,367	Y		TT
"	1309	CCV	"	G.T. OAK080	100,000	100,861	Y		TT
"	1314	IR	156471 (D)	G.T. "	100,000	102,241	Y		TT
"	1320	IC/ICV	"	G.T. 1A8336	50,000	PCC = 1.003 @ 49,300	Y	verified @ 49,868	TT
"	1322	CCV	"	G.T. 1A0234	25,000	25,238	Y		TT
"	1324	CCV	"	G.T. OAK080	100,000	100,823	Y		TT

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

July 2011

TPSWCCS-6

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
7-22-11	1122	IR	Probe 164475	G.T. OAK080	100,000 μ S	100,429	Y		TT
"	1126	IC/ICV	"	G.T. 1A3336	50,000 μ S	PCL=1.000 @ 49,980	Y	verified @ 49,884	TT
"	1128	CCV	"	G.T. 1A0234	25,000 μ S	25117	Y		TT
"	1131	CCV	"	G.T. OAK080	100,000 μ S	101,275	Y		TT
"	1138	IR	Probe 150297	"	100,000 μ S	102,032	Y		TT
"	1145	IC/ICV	"	G.T. 1A3336	50,000 μ S	PCL=0.995 @ 50,193	Y	verified @ 49,614	TT
"	1148	CCV	"	G.T. 1A0234	25,000 μ S	24794	Y		TT
"	1151	CCV	"	G.T. OAK080	100,000 μ S	100,057	Y		TT

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

July 2011
TPSW CCS-6

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
7-22-11	1133	Probe 164475 (B)	15050222 15044349	33.93	33.8	Y		TT
"	1152	Probe 156297 (+)	"	31.89	31.7	Y		TT

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

July 2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: Specific conductance

TPSWCCS-7

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 $\mu\text{S}/\text{cm}$ Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 $\mu\text{S}/\text{cm}$ Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading ($\mu\text{S}/\text{cm}$)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
7-25-11	12:03	IR	155247	GROKCH 1AB336	50,000 μS	52,013.41	y		JA
"	12:06	IR/ICV	"	"	"	1000.996 @ 50,078.35	y	min field @ 49,253.77	JA
"	12:11	CCV	"	GT. 1AD234	25,000 μS	25,971.94	y		JA
"	12:12	CCV	"	GT. 0AK080	100,000 μS	98,507.75	y		JA

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

**FPL Turkey Point Monitoring Plan
Field Instrument Calibration Form**

TPSWC-1
July 2011

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
7/20/11	13:07	IR	Probe 155906 (IT)	G-T. 1AB217	1,000	991 μ S	y		JA
"	13:10	IC/ICV	"	G-T. 0AK079	12,580	PCC = 1.016 @ 12,669	y	Verified @ 12,665.	JA
"	13:15	CCV	"	G-T. 1AB217	1,000	1,031 μ S	y		JA
"	13:19	CCV	"	G-T. 1AD234	25,000	24,132	y		JA
7/20/11	13:27	IR	Probe 155896 (IT)	G-T. 1AB217	1,000	1,029 μ S	y		JA
"	13:31	IC/ICV	"	G-T. 0AK079	12,580	PCC = 1.013 @ 12,698	y	Verified @ 12,772	JA
"	13:34	CCV	"	G-T. 1AB217	1,000	1,042	y		JA
"	13:37	CCV	"	G-T. 1AD234	25,000	24,333	y		JA

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

FPL Turkey Point Monitoring Plan
Field Instrument Calibration Form

July 2011

FPL Turkey Point Monitoring Plan
Field Instrument Calibration Form

TPSWC-2

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 $\mu\text{S}/\text{cm}$ - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 $\mu\text{S}/\text{cm}$ - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading ($\mu\text{S}/\text{cm}$)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
7-20-11	1058	IR	P9 bc 150485 1536 TT (P)	G.T. LAB217	1,000 μS	1035	Y		TT
"	1101	IC/ICV	"	G.T. OAK079	12,880 μS	PCL = 1.006 @ 12753	Y	verified @ 12799	TT
"	1109	CCV	"	G.T. LAB217	1,000 μS	1013	Y		TT
"	1111	CCV	"	G.T. LAB234	25,000 μS	24614	Y		TT
"	1115	IR	P9 bc 150485 (B)	G.T. LAB217	1,000 μS	1036	Y		TT
"	1118	IC/ICV	"	G.T. OAK079	PCL = 1.006 @ 12880 μS	PCL = 1.010 @ 12744	Y	verified @ 12841	TT
"	1120	CCV	"	G.T. LAB217	1,000 μS	1024	Y		TT
"	1121	CCV	"	G.T. LAB234	25,000 μS	24640	Y		TT

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

**FPL Turkey Point Monitoring Plan
Field Instrument Calibration Form**

TPSWC-3B
July 2011

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
7/19/11	13:21	IR	156376 (38)	G-20 KVA 1AB217	1,000	1,031	Y		SH
"	13:28	IC/ICV	"	G-T. OAK079	12,880	ACC=0.998 @ 12,999	Y	verified @ 12,823	SH
"	13:30	CCV	"	G-T. 1AB217	1,000	1,004	Y		SH
"	13:32	CCV	"	G-T. 1AD234	25,000	24,704	Y		SH
7/19/11	13:35	IR	155379 (37)	G-T. 1AB217	1,000	1,031	Y		SH
"	13:37	IC/ICV	"	G-T. OAK079	12,880	ACC=1.004 @ 12,826	Y	verified @ 12,814 (7/20/11) (TT)	SH
7/20/11	9:40	CCV	"	G-T. 1AB217	1,000	1,029	Y		TT
"	9:48	CCV	"	G-T. 1AD234	25,000	24,576	Y		TT

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

July 2011
TPSWC-3

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
7/19/11	13:33	156376 (B)	15050000 15044349	31.59	31.3	Y		SH
7/20/11	9:50	155379 (C)	11	29.061	29.1	Y		TT

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

**FPL Turkey Point Monitoring Plan
Field Instrument Calibration Form**

TPSWC-4

July 2011

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
SRH 7/21/11	12:31	IR	156654 (HT)	G.T. 1A8336	50,000	50475	Y		SH
"	12:43	IC/ICV	"	"	50,000	RC=0.991 @ 50431	Y	ver. fnd @ 49,196	SH
"	12:46	CCV	"	G.T. 1A8234	25,000	24,866	Y		SH
"	12:52	CCV	"	G.T. 0AK080	100,000	98,002	Y		SH
SRH 7/21/11	12:54	IR	156155 (HT)	G.T. 1A8336	50,000	49936	Y		SH
"	13:00	IC/ICV	"	"	50,000	RC=1.010 @ 49440	Y	Ver. fnd @ SRH 49,196 → 49,676	SH
"	13:02	CCV	"	G.T. 1A8234	25,000	24853 SRH	Y		SH
"	13:03	CCV	"	G.T. 0AK080	100,000	98,27	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPSWC-4 T
Replacement

**FPL Turkey Point Monitoring Plan
Field Instrument Calibration Form**

July 2011

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
7-29-11	9:38	IC/ICV	19182	Geotech 1A62267	50,000 uS	PLC = .999 @ 50,002.43	y	verified @ 49,816.17	JA
"	9:39	CCV	"	Geotech 1A0234	25,000 uS	24,261.17	y		JA
"	9:42	CCV	"	Geotech 1A0232	100,000 uS	99,907.66	y		JA

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

**FPL Turkey Point Monitoring Plan
Field Instrument Calibration Form**

TPSWC-5
July 2011

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
7/21/11	11:16	IR	155425 (A)	G.T. 1A-B334	50,000	49569	Y		SH
"	11:22	IC/ICV	"	"	50,000	REC-1.027 @ 49585	Y	verified @ 49689	SH
"	11:29	CCV	"	G.T. 1A-D234	25,000	24953	Y		SH
"	11:34	CCV	"	G.T. 0AK080	100,000	49959	Y		SH
7/21/11	11:39	IR	156164 (B)	G.T. 1A-B334	50,000	50350	Y		SH
"	11:42	IC/ICV	"	"	50,000	REC-1.009 @ 49561	Y	verified @ 49830	SH
"	11:47	CCV	"	G.T. 1A-D234	25,000	25008	Y		SH
"	11:48	CCV	"	G.T. 0AK080	100,000	100,636	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

July 2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Specific conductance

TPSV ID - 1

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
07-25-11	14:41	IR	156062 155421 (H)	1AD234	25,000	25,035.97	y		jj
"	14:46	IC/ICV	"	"	"	PCC = 1.001 @ 24,926.71	y	verified @ 24,851.47	jj
"	14:50	CCV	"	OAK079	12,880	13,070.0	y		jj
"	14:52	CCV	"	1AD336	50,000	48,546.32	y		jj
"	15:03	IR	155421 (S)	"	50,000	49,685.98	y		jj
"	15:05	IC/ICV	"	"	"	PCC = 1.007 @ 49,663.52	y	verified @ 50,181.75	jj
"	15:08	CCV	"	1AD234	25,000	25,239.95	y		jj
"	15:11	CCV	"	OAK082	100,000	101,481.31	y		jj

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

July 2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: Specific conductance

TPSWTD-2

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
7-25-11	13:09	IR	151997 (B)	Greotech IAB336	50,000	52,150.44	y		aj
"	13:12	IC/ICV	"	"	"	PCC = 1.015 @ 49,252	y	verified @ 49,670.13	aj
"	13:15	CCV	"	G.T. IAD234	25,000	25,963	y		aj
"	13:17	CCV	"	G.T. OAK080	100,000	98,891	y		aj
"	13:24	IR	155346 (T)	G.T. IAD234	25,000	25,115.07	y		aj
"	13:28	IC/ICV	"	G.T. IAD234	25,000	PCC = 1.007 @ 24,827	y	verified @ 24,976.23	aj
"	13:30	CCV	"	G.T. OAK079	12,880	13,046.57	y		aj
"	13:32	CCV	"	G.T. IAB336	50,000	49,454.53	y		aj

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

July 2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

TPSW ID-3

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 $\mu\text{S}/\text{cm}$ - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 $\mu\text{S}/\text{cm}$ - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading ($\mu\text{S}/\text{cm}$)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
7/25/11	10:44	IR	157516 (T)	Green LAB336	50,000	49,649.00	y		JA
"	10:47	IC/ICV	"	"	50,000	PLC = 1.006 @ 49,722.98	y	wires @ 50,067.54	JA
"	10:49	CCV	"	G.T. 1A0234	25,000	25,348.71	y		JA
"	10:51	CCV	"	G.T. OAK080	100,000	98,799.44	y		JA
"	10:29	IR	156128 (B)	G.T. 1A8336	50,000	50,319.83	y		JA
"	10:32	IC/ICV	"	"	50,000	PLC = .993 @ 50,358.16	y	wires @ 49,887.86	JA
"	10:36	CCV	"	G.T. 1A0234	25,000	24,868.70	y		JA
"	10:38	CCV	"	G.T. OAK080	100,000	100,887.65	y		JA

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

July 2011

TPSWID-3

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
7/25/11	10:53	157516 (T)	15050222 15044349	34.21	34.1	y		JA
"	10:39	156128 (B)	"	33.27	33.4	y		JA

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

AUGUST 2011 Biscayne Bay Surface Water

Pulled

BBSW

August 2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none">- Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm- Conduct daily prior to use or if CCV fails	<ul style="list-style-type: none">- Read after pressing "Calibrate"- 1 standard at the low end of expected sample reading range but no less than 100 uS/cm- Must be within $\pm 5\%$ of TV	<ul style="list-style-type: none">- Read at the end of the event, or within 24 hrs of initial calibration, whichever is less.- Read only (do not press "calibrate")- Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

	Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
old TPBBSW-2	8.8.11	13:21	IR	155924	Green 1A1267	50,000	50,732.32	y	t = 25.5	df
old TPBBSW-5	"	13:25	IR	157235	"	"	51,007.98	y	t = 25.6	df
old TPBBSW-4	"	13:27	IR	186115	"	"	51,000.30	y	t = 25.65	df
old TPBBSW-1	"	13:31	IR	151386	"	"	52,602.13	N	t = 26.7	df
"	"	13:33	CCV	"	Green 1A0234	25,000	7,868.06	N	t = 25.6	df
TPBBSW-4	"	13:37	CCV	186115	"	"	25,067.59	y	t = 25.3	df
TPBBSW-5	"	13:41	CCV	157235	"	"	25,530.78	y	t = 25.85	df
TPBBSW-2	"	13:44	CCV	155924	"	"	25,599.94	y	t = 26.55	df
"	"	13:46	CCV	"	Green 1A0232	100,000	101,298.95	y	t = 25.17	df

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPBBSW-5	"	13:50	CCV	157235	"	"	102,768.57	y	t = 25.7	df
TPBBSW-4	"	13:52	CCV	186115	"	"	102,307.62	y	t = 25.64	df
TPBBSW-1	"	13:55	CCV	151386	"	"	78.34	N	t = 25.49	df

Aug 2011

BB SW
replace
08/11

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none">- Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm- Conduct daily prior to use or if CCV fails	<ul style="list-style-type: none">- Read after pressing "Calibrate"- 1 standard at the low end of expected sample reading range but no less than 100 uS/cm- Must be within $\pm 5\%$ of TV	<ul style="list-style-type: none">- Read at the end of the event, or within 24 hrs of initial calibration, whichever is less.- Read only (do not press "calibrate")- Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
8-11-11	06:59	IR	186129	Geotech 1AG267	50,000	48,117.45	y	New probe @ TPBBSW-4	JJ
"	07:02	IC/ICV	"	"	"	PLC=1.002 @ 49,926.87	y	works @ 49,965.10	JJ
"	07:03	CCV	"	Geotech 1AD234	25,000	24,720.2	y		JJ
"	07:04	CW	"	Geotech 1AD232	100,000	100,623.3	y		JJ
"	07:07	IR	186138	Geotech 1AG267	50,000	59,594.76	y	New probe @ TPBBSW-1	JJ
"	07:11	IC/ICV	"	"	"	PLC=1.008 @ 49,654.2	y	works @ 50,017.94	JJ
"	07:13	CCV	"	Geotech 1AD234	25,000	24,835.9	y		JJ
"	07:19	CCV	"	Geotech 1AD232	100,000	101,391.9	y		JJ
"	07:14	IR	186147	Geotech 1AG267	50,000	50,886.6	y	New probe @ TPBBSW-2	JJ

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Aug 2011

BBSW

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
 Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
 Quarterly verification at temperatures above and below the range
 of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
8-1-11	07:06	186129	15050222 15044349	27.48	27.1	y		df
"	12:09	186138	"	27.31	27.1	y	* began to check temp	df
"	07:17	186147	"	26.85	26.7	y	prior to cleaning to detect	df
"	07:27	186139	"	26.41	26.5	y	drift	df

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Aug 2011

BBSW

Revised

08/11

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none">- Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm- Conduct daily prior to use or if CCV fails	<ul style="list-style-type: none">- Read after pressing "Calibrate"- 1 standard at the low end of expected sample reading range but no less than 100 uS/cm- Must be within $\pm 5\%$ of TV	<ul style="list-style-type: none">- Read at the end of the event, or within 24 hrs of initial calibration, whichever is less.- Read only (do not press "calibrate")- Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
8-1-11	07:20	IC/ICV	186147	Geotech 1AG267	50,000	PCC = 1.019 C 49,058.4	Y	verified @ 59,000.4	JJ
"	07:23	CCV	"	Geotech 1AD234	25,000	24,923.86	Y		JJ
"	07:25	CCV	"	Geotech 1AD232	100,000	101,506.4	Y		JJ
"	07:26	IC	186139	Geotech 1AG267	50,000	51,368.1	Y	New probe at TPBBSW-5	JJ
"	07:30	IC/ICV	"	"	"	PCC = 1.011 C 49,445.04	Y	verified @ 49,947.51	JJ
"	07:32	CCV	"	Geotech 1AD234	25,000	24,981.72	Y		JJ
"	07:33	CCV	"	Geotech 1AD232	100,000	100,963.4	Y		JJ
									JJ

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPBB5W-3

Field Instrument Calibration Form

Temperature, water

FT1400

Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

[illegible]

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Aug 2011
FPBBSW-3

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

BBTP 3
SW

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
8/3/11	1344	IR	150000	Geotech 1A6-267	50,000	50756	Y		T
"	1353	IC/ICV	"	"	50,000	PLC=0.977 @ 51083	Y	verified = 49659	T
"	1355	CCV	"	Geotech 1AD-234	25,000	25397	Y		T
"	1358	CCV	"	Geotech 1AD-232	100,000	100706	Y		T

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Aug 2011
BBSW-10

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
8/2/11	11:44	IR	156390	Geotech 1AG267	50,000	48,089	Y		SH
"	12:08	IC/ICV	"	"	50,000	PCC = 1.025 @ 48,837	Y	verified @ 50,115	SH
"	12:09	CCV	"	Geotech 1AD234	25,000	24,984	Y		SH
"	12:10	CCV	"	Geotech 1AD232	100,000	100,086	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Aug 2011
TPBBSU-10

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
8/2/11	11:47	156390	15050332 15044345	33.075	33.2	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Aug 2011
TPBBSW-14

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

BBSW 14

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
8/2/11	1421	IR	156284	Geotech 1A9267	50,000	49,950			TI
"	1429	IC/ICV	"	"	50,000	PC = 1.038 @ 4611.19		Verifical = 49757	TI
"	1431	CCV	"	Geotech 1A9234	25,000	24780			TI
"	1433	CCV	"	Geotech 1A9232	100,000	97,922			TI

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

SEPTEMBER 2011 Groundwater

TPGW-1S

Sept 2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
10/14/11	1506	IR	156275	GT IAD232	100,000	101932	Y		T
"	15:11	IC/ICV	"	GT IAC1267	50,000	PCC=0.986 250636	Y	verification= 49488	T
"	15:15	CCV	"	GT IAD234	25,000	24698	Y		T
"	15:16	CCV	"	GT IAD232	100,000	100109	Y		T

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011

TPGW-15

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: **Temperature, water**

FDEP-SOP Reference: **FT1400**

QAPP Requirements: Monthly verification against NIST-traceable thermometer
 Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
 Quarterly verification at temperatures above and below the range
 of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
10/4/11	15:07	150275	15050222	31.06	31.1	Y		ff

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011
TPGW-1M

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
10/11/11	14:13	IC	156174	GT 1A0232	100,000	101896	Y		T
"	14:39	IC/ICV	"	GT 1A0267	50,000	PC = 0.977 @ 51118	Y	verified = 49588	T
"	14:41	CCV	"	GT 1A0234	25,000	24570	Y		T
"	14:44	CCV	"	GT 1A0232	100,000	99.738	Y		T

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011

TPGW-1D

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
10/11/11	14:07	IR	156132	Green 1A0232	100,000	102,060	Y		TI
"	14:13	IC/ICV	"	Green 1A0232	50,000	50,000 @ 50,508	Y	verified = 49430	TI
"	14:14	CCV	"	Green 1A0234	25,000	25,055	Y		TI
"	14:17	CCV	"	Green 1A0232	100,000	100,151	Y		TI

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPGW-1D

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

[illegible]

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011

TPGW-25

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
10/6/11	16:55	IR	156123	Geotech 1A D232	100,000	99,926	Y		SH
"	16:59	IC/ICV	"	Geotech 1A G207	50,000	PCC=0.985 50,724	Y	Verified @ 50,013	SH
"	17:06	CCV	"	Geotech 1A D234	25,000	24,521	Y		SH
"	17:08	CCV	"	Geotech 1A D232	100,000	100,499	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011
TPGW-2M

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
10/5/11	15:58	IR	155882	Geotech 1AD232	100,000	96,193	Y		SH
"	16:04	IC/ICV	"	Geotech 1A4267	50,000	ACC = 0.991 @50,392	Y	Verified @ 49,816	SH
"	16:05	CCV	"	Geotech 1AD234	25,000	24,970	Y		SH
"	16:06	CCV	"	Geotech 1AD232	100,000	99,252	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011

TPGW-2D

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
10/5/11	15:28	IR	155887	Geotech 1AD 232	100,000	99,236	Y		SH
"	15:37	IC/ICV	"	Geotech 1AG 267	50,000	rcc=0.998 @50,041	Y	verified @ 49,802	SH
"	15:40	CCV	"	Geotech 1AD 237	25,000	24,800	Y		SH
"	15:41	CCV	"	Geotech 1AD 232	100,000	100,299	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011
TP6W-35

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
10/5/11	14:18	IC	150184	Geotech 1A6267	50,000	50,573	Y		TI
"	14:30	IC/ICV	"	Geotech 1A6267	50,000	PCC = 0.984 @ 50,437	Y	verified = 49,325	TI
"	14:31	CCV	"	Geotech 1AD234	25,000	25,043	Y		TI
"	14:32	CCV	"	Geotech 1AD232	100,000	100,142	Y		TI

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011
TP6W-3S

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
10/5/11	14:23	156184	15050222 15044349	31.83	31.7	Y		TT

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011
TP6W-3M

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
10/05/11	13:33	IC	156003	Geotech 1A6267	50,000	50,465	Y		π
"	13:50	IC/ICV	"	Geotech 1A6267	50,000	pec = 49864 @ 1.002	Y	verified = 49,658	π
"	13:55	CCV	"	Geotech 1A6234	25,000	24,846	Y		π
"	13:57	CCV	"	Geotech 1A6232	100,000	100,082	Y		π

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011

TPGW-3M

FPL Turkey Point Monitoring Plan
Field Instrument Calibration Form

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
 Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
 Quarterly verification at temperatures above and below the range
 of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
10/05/11	12:43	156003	15050222 15044379	31.68	31.5	Y		TK

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011
TP6W-3D

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
10/5/11	13:01	IR	157230	Geotech 146267	50,000	50,687	Y		SH
"	13:06	IC/ICV	"	Geotech 146267	50,000	pc = 0.980 @ 50,873	Y	verified @ 49,536	SH
"	13:08	CCV	"	Geotech 1AD234	25,000	24,708	Y		SH
"	13:09	CCV	"	Geotech 1AD232	100,000	100,032	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011
TP6W-3D

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments'	Calibration verified by
10/5/11	13:02	157730	15050772 15044349	31.35	31.3	Y		SH

I = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept. 2011
TPGW-45

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
9/8/11	16:53	IR	151977	GEOTECH IAB217	1,000	1,010	Y		SH
"	16:58	IC/ICV	"	GEOTECH CAK079	12,880	PCL=0.991 @ 12,596	Y	Verified @ 12,5818	SH
"	16:59	CCV	"	GEOTECH IAB217	1,000	995	Y		SH
"	17:01	CCV	"	GEOTECH 1A0234	25,000	24,771	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

I = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept. 2011
TP6W-4M

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
9/6/11	15:27	IR	155929	Geotech 1A67267	50,000	49,801	Y		SH
"	15:34	IC/ICV	"	"	50,000	PC=0982 @50,878	Y	Verified @ 49,852	SH
"	15:38	CCV	"	Geotech 1A0234	25,000	25,030	Y		SH
"	15:41	CCV	"	Geotech 1A0232	100,000	100,233	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
9/8/11	14:45	IR	190468	Geotech 1A9267	50,000	50,406	Y		SH
"	14:48	IC/ICV	"	"	50,000	REC=1.021 @ 48,940	Y	verified @ 49,882	SH
"	14:51	CCV	"	Geotech 1A9234	25,000	24,892	Y		SH
"	14:55	CCV	"	Geotech 1A9232	100,000	100,244	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011
TPGW-5S

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
10/7/11	13:08	IC/ICV	186115	OAK079 GEOTECH	12,880	pcc = 1.011 @ 12,710	Y	new probe vs. field @ 12,947	SH
"	13:11	CCV	"	1A3217 GEOTECH	1,000	1,018	Y		SH
"	13:13	CCV	"	1A0234 GEOTECH	25,000	25,226	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011

TPGW-55

FPL Turkey Point Monitoring Plan
Field Instrument Calibration Form

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
 Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
 Quarterly verification at temperatures above and below the range
 of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
10/7/11	13:18	186115	15050222 15044349	33.09	32.9	✓		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011
TPGW 5M

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 $\mu\text{S}/\text{cm}$ Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 $\mu\text{S}/\text{cm}$ Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading ($\mu\text{S}/\text{cm}$)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
10/28/11	12:18	IR	155936	1A0234 GEOTECH	25,000	25,744	Y		SH
"	12:28	IC/ICV	"	"	25,000	PCC=0.987 @ 25,309	Y	verified 24,853	SH
"	12:31	CCV	"	0AK079 GEOTECH	12,880	12,892	Y		SH
"	12:32	CCV	"	1AG267 GEOTECH	50,000	49,929	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011
TP6W-5D

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none">- Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm- Conduct daily prior to use or if CCV fails	<ul style="list-style-type: none">- Read after pressing "Calibrate"- 1 standard at the low end of expected sample reading range but no less than 100 uS/cm- Must be within $\pm 5\%$ of TV	<ul style="list-style-type: none">- Read at the end of the event, or within 24 hrs of initial calibration, whichever is less.- Read only (do not press "calibrate")- Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
10/2/11	11:39	IR	155939	1A0234 Geotech.	25,000	25,410 -24 SRH1	Y		SH
"	11:47	IC/ICV	"	"	25,000	PCC = 1.033 @ 24,212	Y	ver. fixed @ 25,043	SH
"	11:49	CCV	"	0AK079 GEOTECH	12,880	13,034	Y		SH
"	11:50	CCV	"	1A6267 GEOTECH	50,000	50,313	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011
TPGW-5D

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
10/2/11	11:40	155939	15050222 15044349	30.96	30.8	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011
TPGW-BS

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
9/6/11	13:30	IC	190476	0AK079 GEOTECH 4/11 exp.	12,880	1000 ± 1.001 @ 12,859	Y		SH
"	13:33	ICV	"	"	12,880	12,593	Y		SH
"	13:36	CCV	"	1AB217 GEOTECH 2/12 exp.	1,000	1,007	Y		SH
"	13:40	CCV	"	GEOTECH 1A0234 4/12 exp.	25,000	25,228	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011
TPGW-65

FPL Turkey Point Monitoring Plan
Field Instrument Calibration Form

Parameter: **Temperature, water**

FDEP-SOP Reference: **FT1400**

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
9/6/11	13:42	190476	15050222 15044349	38.71	38.8	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011
TPGW-6M

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
9/6/11	12:22	IR	155915	LEOTECH 1A0234 4/12 LRP	25,000	25,017	Y		SH
"	12:31	IC/ICV	"	"	25,000	RCC=0.982 25,443	Y	verified 24,746	SH
"	12:38	CCV	"	0AK079 11/11 LRP LEO TECH	12,880	12,851	Y		SH
"	12:42	CCV	"	1A6067 7/2 LRP LEO TECH	50,000	49,572	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011
TPGW-6D

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
9/6/11	11:33	IR	155907	Geotech 1A0234	25,000	24,945	Y		SH
"	11:42	IC/ICV	"	"	25,000	Acc 0.990 @ 25,263	Y	Use from @ 24,862	SH
"	11:44	CCV	"	Geotech OAK 079	12,880	12,886	Y		SH
"	11:46	CCV	"	Geotech 1A9267	50,000	50,161	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

* 1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011
TPGW-75

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
10/14/11	12:47	IC	155915 152138	1A3217 1A3217	1000	998	Y		TI
"	12:54	IC/ICV	"	Green 0A079	12880	PCC = 1.030 @12,399	Y	verified = 12774	TI
"	12:59	CCV	"	Green 1A3217	1000	1026	Y		TI
"	1303	CCV	"	Green 1A0234	25,000	25029	Y		TI

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011
TPGW- 7M

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
9/14/11	12:24	IC	156362	Crocker 1A0217	1000	999	Y		π
"	12:31	IC/ICV	"	Crocker 0AK074	12880	PCC=1.005 @12814	Y	verified = 12782	π
"	12:34	CCV	"	Crocker 1A0217	1000	1037	Y		π
"	12:36	CCV	"	Crocker 1A0234	25000	24698	Y		π

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011
TPGW-7M

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
10/4/11	12:27	152362	1550222	28.07	28.0	Y		JK

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011
TPGW-7D

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none">- Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm- Conduct daily prior to use or if CCV fails	<ul style="list-style-type: none">- Read after pressing "Calibrate"- 1 standard at the low end of expected sample reading range but no less than 100 uS/cm- Must be within $\pm 5\%$ of TV	<ul style="list-style-type: none">- Read at the end of the event, or within 24 hrs of initial calibration, whichever is less.- Read only (do not press "calibrate")- Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
10/14/11	12:01	IC	157236	CWKA 1A8217	1000	1000	Y		TT
"	12:01	IC/ICV	"	CWKA 0A4079	12880	PCC = 0.994 @ 12949	Y	Verified = 12827	TT
"	12:13	CCV	"	CWKA 1A8217	1000	994	Y		TT
"	12:15	CCV	"	CWKA 1A8234	25000	24592	Y		TT

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011
TPGW-7D

**FPL Turkey Point Monitoring Plan
Field Instrument Calibration Form**

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
10/14/11	12:07	157236	15050222	27.19	27.2	Y		TI
10/14/11								
10/14/11								
10/14/11								

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept. 2011
TPGW-85

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none">- Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm- Conduct daily prior to use or if CCV fails	<ul style="list-style-type: none">- Read after pressing "Calibrate"- 1 standard at the low end of expected sample reading range but no less than 100 uS/cm- Must be within $\pm 5\%$ of TV	<ul style="list-style-type: none">- Read at the end of the event, or within 24 hrs of initial calibration, whichever is less.- Read only (do not press "calibrate")- Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
9/6/11	12:41	IR	155890	beotek 1AB217	1,000	1,012	Y		SH
"	12:44	IC/ICV	"	beotek 0AK079	12,680	AC=0.983 13,103	Y	verified @ 12,646	SH
"	12:47	CCV	"	beotek 1AB217	1,000	1,061	Y		SH
"	12:50	CCV	"	beotek 1AD234	25,000	24,527	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

FPL Turkey Point Monitoring Plan
Field Instrument Calibration Form

Sep 4, 2011
TP6W-8M

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none">- Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm- Conduct daily prior to use or if CCV fails	<ul style="list-style-type: none">- Read after pressing "Calibrate"- 1 standard at the low end of expected sample reading range but no less than 100 uS/cm- Must be within $\pm 5\%$ of TV	<ul style="list-style-type: none">- Read at the end of the event, or within 24 hrs of initial calibration, whichever is less.- Read only (do not press "calibrate")- Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
9/6/11	12:11	IR	154437	Geotech 1AB217	1,000	1,005	Y		SH
"	12:15	IC/ICV	"	Geotech 0AK079	12,880	PCC = 0.990 @ 13,001	Y	Verified @ 12,833	SH
"	12:17	CCV	"	Geotech 1AB217	1,000	1,007	Y		SH
"	12:18	CCV	"	Geotech 1AD234	25,000	24,657	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

I = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011
TP6W-8D

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none">- Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm- Conduct daily prior to use or if CCV fails	<ul style="list-style-type: none">- Read after pressing "Calibrate"- 1 standard at the low end of expected sample reading range but no less than 100 uS/cm- Must be within $\pm 5\%$ of TV	<ul style="list-style-type: none">- Read at the end of the event, or within 24 hrs of initial calibration, whichever is less.- Read only (do not press "calibrate")- Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
9/6/11	11:42	IR	154926	Geotech 1AB217	1,000	1,000	Y		SH
"	11:48	IC/ICV	"	Geotech OAK 079	12,880	PC=0.976 @ 13,196	Y	verified @ 12,872	SH
"	11:50	CCV	"	Geotech 1AB217	1,000	996	Y		SH
"	11:52	CCV	"	Geotech 1AD234	25,000	24,642	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011
TPGW-95

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
9/8/11	9:51	IR	155889	Geotech 1AB217	1,000	1,002	Y		SH
"	9:55	IC/ICV	"	Geotech 0AK079	12,880	RCL = 0.990 @ 12,992	Y	verified @ 12,792	SH
"	9:56	CCV	"	Geotech 1AB217	1,000	988	Y		SH
"	9:58	CCV	"	Geotech 1AD234	25,000	24,679	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011

TPGW-9M

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
9/9/11	9:29	IR	156175	Geotech LAB217	1,000	1,005	Y		SH
"	9:32	IC/ICV	"	Geotech 0A1C079	12,880	$rcc = 0.996$ @ 12,922	Y	verified @ 12,836	SH
"	9:33	CCV	"	Geotech LAB217	1,000	984	Y		SH
"	9:35	CCV	"	Geotech 1AD234	25,000	24,778	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011
TPGW-9D

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
9/6/11	14:54	IR	155879	Geotech 1AB217	1,000	1,036	Y		SH
"	15:01	IC/ICV	"	Geotech 0A1079	12,880	ACC=0.993 @12,959	Y	Verified @ 12,790	SH
"	15:04	CCV	"	Geotech 1AB217	1,000	1,010	Y		SH
"	15:06	CCV	"	Geotech 1AD234	25,000	24,984	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPGW-9D

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

[illegible]

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011
TPLW-105

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none">- Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm- Conduct daily prior to use or if CCV fails	<ul style="list-style-type: none">- Read after pressing "Calibrate"- 1 standard at the low end of expected sample reading range but no less than 100 uS/cm- Must be within $\pm 5\%$ of TV	<ul style="list-style-type: none">- Read at the end of the event, or within 24 hrs of initial calibration, whichever is less.- Read only (do not press "calibrate")- Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
9/21/11	08:51	IR	165871	Geotech 1A9267	50,000 μ S	50,281.52	y		JA
"	08:57	IC/ICV	"	"	"	PLC = .790 @ 50,504.58	y	verified @ 49,905.34	JA
"	09:02	CCV	"	Geotech 1A0234	25,000 μ S	25,151.78	y		JA
"	09:03	CCV	"	Geotech 1A0232	100,000 μ S	100,722.07	y		JA

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011

TPCW-10M

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 $\mu\text{S}/\text{cm}$ - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 $\mu\text{S}/\text{cm}$ - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading ($\mu\text{S}/\text{cm}$)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
9/21/11	9:28	IC	164529	Geotech 1A9267	50,000 μS	50648.80	Y		KV
"	9:34	IC/ICV	"	"	"	PCC = 0.982 @ 50866.81	Y	New Fed @ 49572.88	KV
"	9:38	CCV	"	Geotech 1A0234	25,000 μS	25066.94	Y		KV
"	9:42	CCV	"	Geotech 1A0232	100,000 μS	99419.81	Y		KV

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

FPL Turkey Point Monitoring Plan

Field Instrument Calibration Form

Sept 2011

**FPL Turkey Point Monitoring Plan
Field Instrument Calibration Form**

TPCW-100

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
9/21/11	10:04	IR	168177	Geotech 1A9267	50,000 μ S	51329.43	Y		KV
"	10:11	IC/TV	"	"	"	PLC=0.983 @50782.73	Y	ver. field @ 49494.23	KV
"	10:15	CCV	"	Geotech 1AD234	25,000 μ S	24980.76	Y		KV
"	10:20	CCV	"	Geotech 1AD232	109,000 μ S	99490.46	Y		KV

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011
TPGW-11M
New probe

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none">- Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm- Conduct daily prior to use or if CCV fails	<ul style="list-style-type: none">- Read after pressing "Calibrate"- 1 standard at the low end of expected sample reading range but no less than 100 uS/cm- Must be within $\pm 5\%$ of TV	<ul style="list-style-type: none">- Read at the end of the event, or within 24 hrs of initial calibration, whichever is less.- Read only (do not press "calibrate")- Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
7/16/11		IR sen							
"	12:32	IC/ICV	140131	Gratech 1A9267	50,000	49,160	Y	Ver. find @ 50,093	SH
"	12:38	CCV	"	Gratech 1AD234	25,000	24,759	Y		SH
"	12:40	CCV	"	Gratech 1AD232	100,000	101,637	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011
TPGW-12 S

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
9-30-11	11:48	IR	155925	Geotech 1AG267	50,000 uS	50,963	Y		TT
"	11:52	IC/ICV	"	"	"	PLU=0.997 @50,121	Y	REVERSE @ 49,649	TT
"	11:55	CCV	"	Geotech 1AD234	25,000 uS	25,186	Y		TT
"	11:57	CCV	"	Geotech 1AD232	100,000 uS	101,646	Y		TT

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011

TPGW-12M

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
9-30-11	11:12	IC	157272	Geotech 1A47267	50,000	50,853	Y		TT
"	11:17	IC/2W	"	"	"	PLC=0.993 @ 50,268	Y	verified @ 49,498	TT
"	11:22	CCV	"	Geotech 1A4234	25,000	25,126	Y		TT
"	11:24	CCV	"	Geotech 1A4232	100,000	101,294	Y		TT

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011
TPGW-12D

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
9-30-11	10:37	IR	155922	GeoTech 1A9267	51,200	50,443.37	y		JS
"	10:41	IC/TV	"	"	"	PLC = 1.010 @ 49,450.00	y	verified @ 49,826.85	JS
"	10:45	CCV	"	GeoTech 1AD234	25,000	25,113.98	y		JS
"	10:46	CCV	"	GeoTech 1AD232	100,000	101,835.00	y		JS

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011
TP6W-12 D

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
9-30-11	10:38	155922	15050222 15044349	30.97	30.9	y		JS

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011
TPGW-135

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 $\mu\text{S}/\text{cm}$ Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 $\mu\text{S}/\text{cm}$ Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading ($\mu\text{S}/\text{cm}$)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
9/14/11	11:42	IR	155892	Geotech 1A0232	100,000	100,072	Y		
"	11:48	IC/ICV	"	Geotech 1A0232	50,000	RC=0.991 250,379	Y	Validated @ 49,637	SH
"	11:51	CCV	"	Geotech 1A0234	25,000	24,485	Y		SH
"	11:52	CCV	"	Geotech 1A0232	100,000	99,424	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

I = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011

TPGW-13M

NEW PROBE

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
9/14/11	SRH 10:32	IC	190135		SRH 50,000				
"	10:28	IC/ICV	"	Greenh 1A17267	50,000	PCC=1.020 @ 49,046	Y	Verified @ 50,012	SH
"	10:31	CCV	"	Greenh 1A0234	25,000	24,551	Y		SH
"	10:33	CCV	"	Greenh 1A0232	100,000	101,885	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011
TPGW-13M

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
9/14/11	10:34	190135	15050222 15044349	31.49	31.4	Y		SM

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011
TPGW-13D

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
9/14/11	11:10	IR	154953	Greenwich (AD232)	100,000	101,102	Y		SH
"	11:14	IC/SCU	"	Greenwich (AD232)	50,000	50,000 @ 49,928	Y-SH	verified @ 49,471	SH
"	11:16	CCV	"	Greenwich (AD234)	25,000	24,277	SH		SH
"	11:18	CCV	"	Greenwich (AD232)	100,000	98,312	SH		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011

TPGW- 145

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
9/16/11		IC	155710	1A0232	52,000				TI
9/16/11	1308	IC/ICV	155924	GT 1A0232	"	9CC=1.019 @ 49117	Y	was read @ 50276	TI
"	1318	CCV	"	GT 1A0234	25,000	25224	Y		TI
"	1320	CCV	"	GT 1A0232	100,000	101311	Y		TI

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011
TPGW-145

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
9/10/11	1316	155924	15050223 15044384	31.02	30.9	Y		gg

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011
TPGW-14M

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
9/14/11	12:38	IR	150137	Geotech 1A67267	50,000 μ S	52,952.14	y		JA
"	12:34	FW	"	"	"	ICC = .993 @ 50,314	07 y	Verifies @ 49,897.12	JA
"	12:37	CCV	"	Geotech 1AD234	25,000 μ S	24,858.20	y		JA
"	12:39	CCV	"	Geotech 1AD232	100,000 μ S	99,152.55	y		JA

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011

TPGW-14M

FPL Turkey Point Monitoring Plan
Field Instrument Calibration Form

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
 Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
 Quarterly verification at temperatures above and below the range
 of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
8/11/11	11:31	150137	15050223 15044384	30.68	30.6	Y		JJ

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011
TPGW-141

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
9/10/11	11:49	IC	156192	Green 1A67267	50,000 μ S	52,425.57	y		JS
"	11:54	IC/sw	"	"	"	RC = .987 @ 50,552.31	y	verified @ 49,710.12	JS
"	11:57	CCV	"	Green 1A0234	25,000 μ S	24,942.32	y		JS
"	11:58	CCV	"	Green 1A0232	100,000 μ S	99,099.29	y		JS

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011
TPGW-14D

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
9/14/11	11:50	156192	15050223 1552389	32.15	32.0	Y		JS

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

SEPTEMBER 2011

Surface Water

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011
TPSWCCS 1

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
9/7/11	14:39	IR	B5414	Geotech 1A D232	100,000	100,312	Y		SH
"	14:44	IC / ICV	"	Geotech 1A G267	50,000	PLC=1.012 @49,256	Y	verified @ 49,684	SH
"	14:47	CCV	"	Geotech 1A D234	25,000	25,259	Y		SH
"	14:49	CCV	"	Geotech 1A D232	100,000	99,707	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011
TPSWCCS 2

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
9/14/11	1239	IR	177085	G-T. 1A0232	100,000	100,414	Y		TT
"	1241	IC/ICV	"	G-T. 1A0267	50,000	PCC = 0.989 @ = 50,562	Y	verified = 50,108	TT
"	1252	CCV	"	G-T. 1A0234	25,000	25,701	Y		TT
"	1254	CCV	"	G-T. 1A0232	100,000	101,196	Y		TT

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011
TPSW CCS 3

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
9/7/11	13:54	IR	156361	Geotech 1A D232	100,000	101,816	Y		SH
"	13:59	IC/ICV	"	Geotech 1A G267	50,000	PC=1.009 @ 49,490	Y	verified @ 49,927	SH
"	14:02	CCV	"	Geotech 1A D231	25,000	25,200	Y		SH
"	14:03	CCV	"	Geotech 1A D232	100,000	100,358	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011
TPSWCCS4

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
9/9/11	13:21	IR	155834 (B)		100,000	99,927	Y		SH
"	13:25	IC/ICV	"		50,000	PCC=976 @ 51,170	Y	Verified @ 49,755	SH
"	13:29	CCV	"		25,000	24,545	Y		SH
"	13:30	CCV	"		100,000	100,594	Y		SH
9/9/11	13:32	IR	156473 (A)		100,000	101,652	Y		SH
"	13:37	IC/ICV	"		50,000	PCC=9780 @ 50,940	Y	Verified @ 49,642	SH
"	13:39	CCV	"		25,000	24,741	Y		SH
"	13:41	CCV	"		100,000	101,081	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011
TPSWCCS4

FPL Turkey Point Monitoring Plan
Field Instrument Calibration Form

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
9/9/11	13:23	155834 (B)	15050222 15044349	36.22	36.4	Y		SH
9/9/11	13:42	156473 (T)	"	36.67	36.8	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011

TPSWCCS-5

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
7/9/11	11:58	IR	155866 (SB)	Geotech 1A D232	100,000	100,161 101,154	Y		SH
"	12:02	IC/ICV	"	Geotech 1A G267	50,000	PCC = 1.005 @ 49,642	Y	verified @ 49,631	SH
"	12:04	CCV	"	Geotech 1A D234	25,000	25,250	Y		SH
"	12:06	CCV	"	Geotech 1A D232	100,000	102,159	Y		SH
9/9/11	12:21	IR	156471 (ST)	"	100,000	99,987	Y		SH
"	12:26	IC/ICV	"	Geotech 1A G267	50,000	PCC = 1.028 @ 48,522	Y	verified @ 49,513	SH
"	12:29	CCV	"	Geotech 1A D234	25,000	25,219	Y		SH
"	12:31	CCV	"	Geotech 1A D232	100,000	102,700	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011
TPSWCCS 5

FPL Turkey Point Monitoring Plan
Field Instrument Calibration Form

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
9/9/11	12:18	155886 (B)	15050222 15044349	31.98	31.9	Y		SH
9/9/11	12:31	156471 (T)	11	31.57	31.3	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011
TPSWCCS6

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
9/9/11	10:12	IR	164475 (68)	Geotech 1AD232	100,000	101,680	Y		SH
"	10:18	IC/ICV	"	Geotech 1AG267	50,000	PCC = 0.993 @ 50,360	Y	Verified @ 49,783	SH
"	10:19	CCV	"	Geotech 1AD234	25,000	24,740	Y		SH
"	10:26	CCV	"	Geotech 1AD232	100,000	100,917	Y		SH
9/9/11	10:29	IR	156297 (67)	"	100,000	98,930	Y		SH
"	10:36	IC/ICV	"	Geotech 1AG267	50,000	PCC = 1.012 @ 49,325	Y	Verified @ 49,537	SH
"	10:37	CCV	"	Geotech 1AD234	25,000	24,812	Y		SH
"	10:39	CCV	"	Geotech 1AD232	100,000	101,803	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011

TPSWCGR-63

replaced
probe

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none">- Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm- Conduct daily prior to use or if CCV fails	<ul style="list-style-type: none">- Read after pressing "Calibrate"- 1 standard at the low end of expected sample reading range but no less than 100 uS/cm- Must be within $\pm 5\%$ of TV	<ul style="list-style-type: none">- Read at the end of the event, or within 24 hrs of initial calibration, whichever is less.- Read only (do not press "calibrate")- Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
9-28-11	16:55	IC/ICV	186138	Geotech 1A1207	50,000	PLC = .986 @ 50,033.64	y	verified @ 49,700, 69	df
"	17:02	CCV	"	Geotech 1A0234	25,000	24,257.18	y		df
"	17:04	CCV	"	Geotech 1A0232	100,000	98,688.39	y		df

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPSW CCS-6

I = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2014
TPSW CCS 7

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
9/7/11	12:51	IC	155217	Geotech 1A D232	100,000	101,802	Y		SH
"	12:57	IC/ICV	"	Geotech 1A G267	50,000	PCC=0.996 50,160	Y	verified @ 50,160 - 49,409	SH
"	13:01	CCV	"	Geotech 1A D234	24,715	25,000 SRM	Y		SH
"	13:02	CCV	"	Geotech 1A D232	100,000	100,291	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011
Tpsw CCS 7

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: **Temperature, water**

FDEP-SOP Reference: **FT1400**

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
9/7/11	13:10	155247	15050277 1504849	33.21	33.0	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011
TPSAC-1

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
10/3/11	12:05	IR	155906 (17)	Geotech 1A B217	1,000	1067	N	outside of 5% range.	SH
"	12:10	IC/ICV	"	IN-SITU 1AC587	12,880 ⁹ SH	PCC = 1.011 @ 12,743	Y	Ver. find @ 12,752	SH
"	12:17	CCV	"	Geotech 1A B217	1,000	1,009	Y		SH
"	12:19	CCV	"	Geotech 1A D234	25,000	24,962	Y		SH
14/03/11	12:22	IR	155896 (18)	Geotech 1A B217	1,000	1,025	Y		SH
"	12:35	IC/ICV	"	In-situ 1AC587	12,890	PCC = 1.063 @ 12,843	Y	Ver. find @ 12,855	SH
"	12:36	CCV	"	Geotech 1A B217	1,000	1,013	Y		SH
"	12:38	CCV	"	Geotech 1A D234	25,000	24,902	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

I = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPSWC-2
Sept. 2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
10/3/11	13:21	IR	156485 (2T)	Geotech 1AB217	1,000	1,005	Y		SH
"	13:31	IC/ICV	"	IN-SITU 1AC587	12,890	PC=1.025 @12,564	Y	Ver. Fwd @ 12,782	SH
"	13:34	CCV	"	Geotech 1AB217	1,000	1,029	Y		SH
"	13:37	CCV	"	Geotech 1AD234	25,000	24,753	Y		SH
10/3/11	13:40	IR	156188 2B	Geotech 1AB217	1,000	1,017	Y		SH
"	13:45	IC/ICV	" 2B	IN-SITU 1AC587	12,890	PC=1.028 @12,532	Y	verified @ 12,552	SH
"	13:51	CCV	"	Geotech 1AB217	1,000	1,024	Y		SH
"	13:53	CCV	"	Geotech 1AD234	25,000	24,910	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
10/3/11	14:38	IR	156379 3T	Geotech 1AB217	1,000	1,011	Y		SH
"	14:42	IC/ICV	"	INSTN 1AC587	12,890	PCC=1.019 @12,641	Y	Verified @ 12,575	SH
"	14:48	CCV	"	Geotech 1AB217	1,000	1,031	Y		SH
"	14:50	CCV	"	Geotech 1AD234	25,000	24,538	Y		SH
10/3/11	14:53	IR	156376 3B	Geotech 1AB217	1,000	1,016	Y		SH
"	14:59	IC/ICV	"	INSTN 1AC587	12,890	PCC=1.011 @12,746	Y	Verified @ 12,851	SH
"	15:01	CCV	"	Geotech 1AB217	1,000	1,034	Y		SH
"	15:03	CCV	"	Geotech 1AD234	25,000	24,367	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011
TPSWC 3

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
10/3/11	14:33	156379 3T	15056722 15044349	31.74	31.7	Y		SH
10/3/11	14:56	156376 3B	"	32.40	32.4	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPSWC-4
Sept. 2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
10/3/11	10:46	IR	191182 (48)	Geotech 1AG267	50,000	49,152	Y		SH
"	10:52	IC/ICV	"	"	50,000	SLC = 1.028 @ 48663	Y	verified @ 50,063	SH
"	10:56	CCV	"	Geotech 1AD234	25,000	25,045	Y		SH
"	10:58	CCV	"	Geotech 1AD232	100,000	102,395	Y		SH
10/3/11	11:03	IR	156155 (48)	Geotech 1AG267	50,000	49,716	Y		SH
"	11:06	IC/ICV	"	"	50,000	SLC = 1.017 @ 49,159	Y	verified @ 49,938	SH
"	11:11	CCV	"	Geotech 1AD234	25,000	24,464	Y		SH
"	11:14	CCV	"	Geotech 1AD232	100,000	100,647	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011
TPSWC 4

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: **Temperature, water**

FDEP-SOP Reference: **FT1400**

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
10/3/11	11:00	191182 (45)	15050222 150441349	27.95	27.9	Y		SH
10/3/11	11:06	156155 (46)	11	28.46	28.4	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept. 2011
TPSWC-5

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
9/13/11	14:44	IR	155425 (ST)	Geotech 1A9267	50,000	49,783	Y		SH
"	14:52	IC/ICV	"	"	50,000	pu = 1.010 @ 49,433	Y	Verified @ 49,328	SH
"	14:54	CCV	"	Geotech 1AD234	25,000	24,640	Y		SH
"	14:55	CCV	"	Geotech 1AD232	100,000	99,811	Y		SH
9/13/11	15:13	IR	156164 (SB)	Geotech 1A9267	50,000	50,629	Y		SH
"	15:18	IC/ICV	"	"	50,000	pu = 1.017 @ 49,126	Y	Verified @ 49,931	SH
"	15:19	CCV	"	Geotech 1AD234	25,000	24,568	Y		SH
"	15:20	CCV	"	Geotech 1AD232	100,000	98,645	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011

TPSWID 1

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
9/7/11	15:11	IR	156062 (T)	Geotech 1AB217	1,000	1,012	Y		SH
"	15:17	IC/ICV	"	Geotech DAK079	12,880	PCC=1.013 @12,692	Y	Ver. Fied @ 12,684	SH
"	15:44	CCV	"	Geotech 1AB217	1,000	1,043	Y		SH
"	15:47	CCV	"	Geotech 1AD234	25,000	24,150	Y		SH
9/7/11	15:53	IR	155421 (B)	Geotech 1AB217	1,000	1,004	Y		SH
"	15:59	IC/ICV	"	Geotech DAK079	12,880	PCC=1.017 @12,667	Y	verified @ 12,883	SH
"	16:02	CCV	"	Geotech 1AB217	1,000	1,012	Y		SH
"	16:05	CCV	"	Geotech 1AD234	25,000	24,439	Y		SH

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011
TPSWID 1

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
9/7/11	5:18 15:48	156062 (D)	15050222 15044349	33.84	33.7	Y		SH
9/7/11	16:06	155421 (B)	"	32.96	32.8	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011

TPSWID 2

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
9/7/11	11:39	IR	155346 (2T)	Geotech 1AB217	1,000	1,037	Y		SH
"	11:44	IC/ICV	"	Geotech 0A1C079	12,880	RC=1.039 @12,500	Y	verified @ 12,754	SH
"	11:50	CCV	"	Geotech 1AB217	1,000	1,009	Y		SH
"	11:52	CCV	"	Geotech 1AD234	25,000	24,935	Y		SH
9/7/11	11:59	IR	151997 (2B)	Geotech 1AB217	1,000	1,044	Y		SH
"	12:06	IC/ICV	"	Geotech 0A1C079	12,880	RC=0.996 @12,920	Y	verified @ 12,810	SH
"	12:08	CCV	"	Geotech 1AB217	1,000	1,041	Y		SH
"	12:12	CCV	"	Geotech 1AD234	25,000	24,785	Y		SH

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011
TPSWIDZ

FPL Turkey Point Monitoring Plan
Field Instrument Calibration Form

Parameter: **Temperature, water**

FDEP-SOP Reference: **FT1400**

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
9/7/11	11:56	155346 (2T)	15050222 15044349	33.98	33.8	Y		SH
"	12:18	151997 (20)	"	34.19	34.1	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011
TPSWID 3

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
9/7/11	9:53	IR	157516 (3T)	Geotech LAB217	1,000	1,019	Y		SH
"	9:59	IC/ICV	"	Geotech OAK079	12,880	PCC=1.027 @12,547	Y	Verified @ 12,865	SH
"	10:00	CCV	"	Geotech LAB217	1,000	1,004	Y		SH
"	10:02	CCV	"	Geotech AD234	25,000	24,848	Y		SH
9/7/11	10:05	IR	156128 (38)	Geotech LAB217	1,000	1,059	N(5%)	Initial read continuing to calibrate	SH
"	10:09	IC/ICV	"	Geotech OAK079	12,880	PCC=1.026 @12,556	Y	Verified @ 12,857	SH
"	10:17	CCV	"	Geotech LAB217	1,000	1,021	Y		SH
"	10:19	CCV	"	Geotech AD234	25,000	24,860	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011
TPSWID3

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
9/7/11	10:02	157516 (37)	15050722 150614349	30.88	30.9	Y		SH
9/7/11	10:20	156128 (38)	11	30.72	30.6	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

SEPTEMBER 2011

Biscayne Bay Surface Water

Sept 2011
TPBBSW-1

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
9/14/11	14:07	IR	186147	Geotech 1A9267	50,000 μ S	51,731.18	y		JJ
"	14:14	IC/ICV	"	"	"	plc = 1.002 @ 49,901.72	y	Verified @ 50,005.38	JJ
"	14:17	CCV	"	Geotech 1AD234	25,000 μ S	24,623.19	y		JJ
"	14:18	CCV	"	Geotech 1AD232	100,000 μ S	99,352.88	y		JJ

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011
TPBBSW-2

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
9/10/11	10:27	IR	186129	Geotech 1A6267	50,000 μ S	50,313.70	y		JS
"	10:30	IC/ICV	"	"	"	PCC = 1.001 @ 49,954.10	y	verified @ 50,064.03	JS
"	10:32	CCV	"	Geotech 1AD234	25,000 μ S	24,544.03	y		JS
"	10:34	CCV	"	Geotech 1AD232	100,000 μ S	100,993.76	y		JS

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPBB SW ~~1~~ 2 2
08

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPBBSW-3
Sept. 2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
9/16/11	13:52	IR	B6060	Geotech 1A6267	50,000	49,787	Y		SH
"	14:07	IC/ICV	"	Geotech 1A6267	50,000	PCC = 0.988 250,581	Y	Verified: 49,901	SH
"	14:09	CCV	"	Geotech 1A0234	25,000	25,502	Y		SH
"	14:12	CCV	"	Geotech 1A0232	100,000	99,375	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2014

TPBBSW-4

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
9/16/14	09:51	IR	186139	Geotech 1AG267	50,000 μ S	50,220.01	y		aj
"	09:52	IC/ICV	"	"	"	PCL-1.006 @ 49,706.27	y	ver: PCL @ 49,997.80	aj
"	09:50	CCV	"	Geotech 1AD234	25,000 μ S	24,406.07	y		aj
"	09:58	CCV	"	Geotech 1AD232	100,000 μ S	101,281.96	y		aj

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011
TPBB4

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments'	Calibration verified by
9/14/11	09:59	186139	15044389 15050223	29.04	29.0	y		JJ

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011
TPBBSU-5

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
9/16/11	07:53	IC/ICV	157235	Geotech 1A1267	50,000 μ S	PEC = 1.004 49,822.75	y	verified @ 50,527.55	JS
"	07:54	CCV	"	Geotech 1AD234	25,000 μ S	24,652.34	y		JS
"	07:56	CCV	"	Geotech 1AD232	100,000 μ S	101,751.79	y		JS

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011
TPBB SWZ X 5
JJ

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: **Temperature, water**

FDEP-SOP Reference: **FT1400**

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
9/10/11	07:48	157235	15044389 15050223	26.56	26.6	Y		JJ

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept-2011

TPBBW-10

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
9/21/11	08:10	IR	156390	Geotech 1A17267	50,000 uS	51,346.51	Y		JJ
"	08:14	IC/ICV	"	"	"	PLC = .997 @ 50,112.49	Y	See files @ 49,902.99	JJ
"	08:23	CCV	"	Geotech 0AD234	25,000 uS	24,995.08	Y		JJ
"	08:27	CCV	"	Geotech 1A0232	100,000 uS	101,334.55	Y		JJ

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011
TPBBSW-10

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
9/21/11	08:13	150390	15050223 15044381	28.00	28.0	y		df

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Sept 2011
TPBBSU-14

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
9/16/11	10:57	IR	156284	Green 1A6267	50,000 μ S	52,124.23	y		JA
"	11:01	IC/ICV	"	"	"	PCC = .991 @ 50,000 μ S	y	verifies @ 49,623.45	JA
"	11:05	CCV	"	Green 1A0234	25,000 μ S	24,554.79	y		JA
"	11:06	CCV	"	Green 1A0232	100,000 μ S	99,127.71	y		JA

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

NOVEMBER 2011 Groundwater

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none">- Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm- Conduct daily prior to use or if CCV fails	<ul style="list-style-type: none">- Read after pressing "Calibrate"- 1 standard at the low end of expected sample reading range but no less than 100 uS/cm- Must be within $\pm 5\%$ of TV	<ul style="list-style-type: none">- Read at the end of the event, or within 24 hrs of initial calibration, whichever is less.- Read only (do not press "calibrate")- Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/10/11	12:39	IC	156275	1A6267 Exp. 7/12	50,000	50,161	Y		SH
"	12:49	IC/ICV	"	"	50,000	PCC = 990 @ 50,507	Y	Ver. #2 @ 99,974	SH
"	12:52	CCV	"	1A0234 Exp. 4/12	25,000	25,111	Y		SH
"	12:58	CCV	"	1A1483 9/12	100,000	97,507	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPGW 1M
Nov 2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/10/11	11:41	IR	156174	1A6267 Exp. 7/12	50,000	49,815	Y		SH
"	12:03	IC/ICV	"	"	50,000	PCC=0.999 @50,107	Y	verified @ 50,008	SH
"	12:06	CCV	"	1A02341 4/12	25,000	25,180	Y		SH
"	12:12	CCV	"	1A1483 9/12	100,000	99,407	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPGW 1D
Nov 2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none">- Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm- Conduct daily prior to use or if CCV fails	<ul style="list-style-type: none">- Read after pressing "Calibrate"- 1 standard at the low end of expected sample reading range but no less than 100 uS/cm- Must be within $\pm 5\%$ of TV	<ul style="list-style-type: none">- Read at the end of the event, or within 24 hrs of initial calibration, whichever is less.- Read only (do not press "calibrate")- Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/10/11	10:37	IR	156132	GEOTECH 1A6267 7/12	50,000	50,452	Y		SH
"	11:05	IC/ICV	"	"	50,000	RLC: 0.985 250,866	Y	Verified @ 50,015	SH
"	11:09	CCV	"	GEOTECH 1A0234 4/12	25,000	24,582	Y		SH
"	11:11	CCV	"	GEOTECH 1A1483 9/12	100,000	98,055	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPGW 2S
Nov 2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/5/11	14:25	IC	186129	GEOTECH INC 507 7/12	50,000	49,912	Y	IR performed b/c probe was taken from BBSW 2B	TT
"	14:36	IC/ICV	"	"	50,000	PLC = 0.995 @ 50,251	Y	verified = 50,030	TT
"	14:39	CCV	"	G.T. 1A0334 4/12	25,000	25,395	Y		TT
"	14:42	CCV	"	G.T. 1A1483 9/12	100,000	98,665	Y		TT

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPGW 2M
Nov 2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/5/11	13:29	IC	196139	G.T. 1A6267 7/12	50,000	49,818	Y	IC performed b/c probe was taken from BBSW413	TT
"	14:00	IC/ICV	"	"	50,000	PCC=0.996 @50,164	Y	verified = 49,858	TT
"	14:02	CCV	"	G.T. 1A0234	25,000	25,201	Y		TT
"	14:04	CCV	"	G.T. 1A1483 9/13	100,000	98,286	Y		TT

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPGW 2D
Nov 2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/5/11	12:39	IC/ICV	197265	G.T. 1A6267 7/12.	50,000	acc = 1.004 @ 50,074	Y	Verified @ 50,111	SH
"	12:43	CCV	"	G.T. 1A0234 4/12.	25,000	24,742	Y		SH
"	12:46	CCV	"	G.T. 1A1483 9/12.	100,000	97,779	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPGW-2S

Nov 2011

probe pulled
and sent
back

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 $\mu\text{S}/\text{cm}$ Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 $\mu\text{S}/\text{cm}$ Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading ($\mu\text{S}/\text{cm}$)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/18/11	9:32	ICV	156123	G.T. 1116267 7/12	50,000	PCC = 0.982 @ 50,921	Y	verified = 50,003	TA
"	9:33	CCV	"	G.T. 1A0234 4/12	25,000	24,159	Y		TA
"	9:34	CCV	"	G.T. 111483 9/12	100,000	98,870	Y		TA

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPGW 2-M
Nov 2011
probe pulled
and sent
back

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none">- Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm- Conduct daily prior to use or if CCV fails	<ul style="list-style-type: none">- Read after pressing "Calibrate"- 1 standard at the low end of expected sample reading range but no less than 100 uS/cm- Must be within $\pm 5\%$ of TV	<ul style="list-style-type: none">- Read at the end of the event, or within 24 hrs of initial calibration, whichever is less.- Read only (do not press "calibrate")- Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/18/11	10:47	IC/ICV	158002	G.T. 1A6267 7/12	50,000	Re=0.995 @ 50,237	Y	verified = 50,080	fk
"	10:50	CCV	"	G.T. 1A0934 4/12	25,000	24450	Y		fk
"	10:51	CCV	"	G.T. 1A1483 9/12	100,000	98,629	Y		fk

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPGW - 2M
 Nov 2011
 probe pulled
 and sent back

FPL Turkey Point Monitoring Plan
Field Instrument Calibration Form

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
 Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
 Quarterly verification at temperatures above and below the range
 of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/18/11	10:52	1555082	15030223 15044359	24.50	24.4	Y		TP

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPGW - 2D
Nov 2011
probe pulled
and sent back

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none">- Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm- Conduct daily prior to use or if CCV fails	<ul style="list-style-type: none">- Read after pressing "Calibrate"- 1 standard at the low end of expected sample reading range but no less than 100 uS/cm- Must be within $\pm 5\%$ of TV	<ul style="list-style-type: none">- Read at the end of the event, or within 24 hrs of initial calibration, whichever is less.- Read only (do not press "calibrate")- Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/18/11	10:18	IC/ICV	155887	C.T. 116267 7/12	50,000	PLC = 1.000 @ 50,039	Y	verified = 50,206	AT
"	10:22	CCV	"	C.T. 110234 4/12	25,000	24,509	Y		AT
"	10:23	CCV	"	C.T. 1112183 9/12	100,000	99,744	Y		AT

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPGW 35
Nov 2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/6/11	13:28	IL	156543	Greiner 1A6267	50,000	49,538.94	y		jj
"	13:34	IL/3W	"	"	"	PLC = .984 @ 50,788.35	y	verified @ 49,873.02	jj
"	13:37	CW	"	Greiner 1A6234	25,000	24,755.05	y		jj
"	13:41	CW	"	Greiner 1A7483	100,000	98,414.41	y		jj

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPGW 3M
Nov 2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/8/11	13:00	IP	156003	GeoKer 1A6247	59,000	58,474.99	y		JS
"	13:05	IC/ICV	"	"	"	PLC = 0.986 @ 50,040.85	y	verified @ 49,717.53	JS
"	13:10	CCV	"	GeoKer 1A0234	25,000	24,654.30	y		JS
"	13:13	CCV	"	GeoKer 1A1483	100,000	98,031.84	y		JS

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPGW 3D
Nov 2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
4/8/11	12:20	IC	157230	Greiner 1AG267	50,000	50,524.73	Y		JS
"	12:30	IC/ICV	"	"	"	PLC = 973 @ 51,415.43	Y	verified @ 49,884.18	JS
"	12:38	CCV	"	Greiner 1A0234	25,000	24,778.71	Y		JS
"	12:36	CCV	"	Greiner 1AI483	100,000	98,589.67	Y		JS

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

I = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPGW45
NN 2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/2/11	16:50	IR	151977	C.T. 1A8217 2/12	1,000 _{uS}	1002.70	Y		jj
"	16:55	IC/sw	"	C.T. 1A5221 10/12	5000 _{uS}	PLC = .975 @ 5127.83	Y	verified @ 4,995.73	jj
"	16:57	CCV	"	C.T. 1A8217 2/12	1,000 _{uS}	1,010.32	Y		jj
"	16:58	CCV	"	C.T. 0A0079	12,880 _{uS}	13,096.77	Y		jj

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPGW 4M
NOV 2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/2/11	16:22	IR	155929	620724 0A0234	25,000 12,880	24,931.86	Y		JA
"	16:25	IR/sw	"	"	"	PLC = 0.942 @ 25,185.76	Y	verified @ 24,964.88	JA
"	16:27	CCV	"	620724 0A0234	12,880	12,982.15	Y		JA
"	16:29	CCV	"	620724 1A0234	59,000	59,629.97	Y		JA

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1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPGW 4D
NW 2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/2/11	15:34	IC/09	190468 155574 08	Green 1A17267	50,000	49,815.34	y		08
"	15:49	IC/10	"	"	"	PC = 1.024 @ 48,858.71	y	writes @ 50,014.45	08
"	15:52	CCV	"	Green 1A0234	25,000	24,847.44	y		08
"	15:57	CCV	"	Green 1A0232	100,000	109,572.46	y		08

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I = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPGW SS
Nov 2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/10/11	16:52	IC	186115	GEOTECH 1A3217 2/12	1,000	1,024	Y		SH
"	17:03	IC/ICV	"	GEOTECH 1A3221 10/12	5,000	PCC=0.973 @ 5135	Y	Verified @ 4978.14	SH
"	17:05	CCV	"	GEOTECH 1A3217 2/12	1,000	993	Y		SH
"	17:06	CCV	"	IN-SITU MCS87 MTR. 1/12	12,890 ^u	12,580	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPGW SM
NW 2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/10/11	15:59	IR	155936	GEOTECH 1A0531 4/12	25,000	24,903	Y		SH
"	16:00	IC/ICV	"	"	25,000	R _{CV} = 0.99 @ 25,250	Y	Verified @ 24,809	SH
"	16:08	CCV	"	IN-SETU 1A5361 10/12	12,580 ^{SH}	12,495	Y		SH
"	16:10	CCV	"	GEOTECH 1A6267 7/12	50,000	50,162	N		SH

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1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPGWSD
Nov 2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/10/11	15:34	IR	155939	6507E41 1A0234 4/12	25,000	25,298	Y		SH
"	15:31	IC / ICV	"	"	"	24,567 24,798	Y	verified @	SH
"	15:33	CCV	"	IN-S-ETU 1AC637 3/12	12,880	12,789 12,880 SPH	Y		SH
"	15:35	CCV	"	C.T. 1A6267 7/12	50,000	49,906	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TP6W-6S
NOV-2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/22/11	11:42	IC/3W	193526	G.T. 1A5001 10/12	5,000	PLC = .998 @ 5,009.49	y	verified @ 5,007.47	JS
"	11:45	CCV	"	G.T. 1A3217 2/12	1,000	985.88	y		JS
"	11:46	CCV	"	F.A.S.M. 1A5087 2/12	12,000	12,725.37	y		JS

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPCW-6M
Nov-2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/22/11	12:22	IC/ICV	198939	G.T. 1A0234 4/12	25,000 μ S	PCC = 1.021 @ 24,474.15	Y	25,951.27	JR
"	12:24	CCV	"	IN. SETU. 1A0587 3/12	12,890 μ S	12,814.25	Y		JR
"	12:28	CCV	"	G.T. 1A0267 7/12	50,000 μ S	50,655.06	Y		JR

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPGW-6M
Nov 2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/22/11	12:30	198939	15050223 15044389	31.307	30.9	Y		JJ

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TP6W-60
Nov. 2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/22/11	13:04	IC/ICV	197241	660TECH 1A0234 4/12.	25,000 m	PCC = 1.018 @ 24,546.97	y	verified @ 24,985.63	JA
"	13:10	CCV	"	10-SETU 1A11289 8/12.	12,890 m	13,031.36	y		JA
"	13:13	CCV	"	6.T. 1A6267 7/12.	50,000 m	50,833.81	y		JA

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPGW-6M
 ① Nov 2011

probe pulled
 and sent
 back

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
12/20/11	11:54	IC	153915	G-T. 1A0234 ① 12/20/11	25,000	24,236	Y		T
"	11:59	CCV	"	In-Situ 1AJ361	① 12/20/11 12,890	12,494	Y		T
"	12:00	CCV	"	1A0267 ① 12/20/11 G-T	50,000	50,071 ① 12/20/11	Y		T

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPGW - 6M
 Nov 2011
 probe pulled
 and sent back

FPL Turkey Point Monitoring Plan
Field Instrument Calibration Form

Parameter: **Temperature, water**

FDEP-SOP Reference: **FT1400**

QAPP Requirements: Monthly verification against NIST-traceable thermometer
 Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
 Quarterly verification at temperatures above and below the range
 of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
12/20/11	11:55	153915	15050223 15044388	23.45	23.3	Y		T

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPGW-6D
Nov 2011
probe pulled
and sent back

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
12/20/11	16:57	IR	155907	G.T. JAP 234 1A6267	25,000	24,418	Y		TK
12/20/11	16:59	ICV	"	G.T. 11 1A6267	12,890	12,589	Y		TK
"	16:58	CCV	"	G.T. 11 1A6267	50,000	49,557	Y		TK
				INSITU 1A5361					

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TP6W-75
Nov-2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/4/11	14:50	IR	156138	1000	60575CH 1113217 2/12	1042	Y		T
"	14:58	IC/ICV	"	5000	G.T. 1113221 10/12	RCC = 0.978 @ 5707	Y	verified = 4976	T
"	14:59	CCV	"	1000	see above	995	Y		T
"	15:00	CCV	"	12,880 9 1113221 2/12	IN SETU 1114284 5/12	12734	Y		T

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TP6W-7M
Nov-2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/14/11	14:00	IR	1520362	1000	G.T. 1A3217 2/12.	1018	Y		T
"	14:14	IC/ICV	"	5000	GEOTECH 1A5221 10/12.	RC=0.980 @ 5102	Y	verified = 4977	T
"	14:25	CCV	"	1000	See above	997	Y		T
"	14:40	CCV	"	12,880 ⁹⁵¹¹	IN-SETU 1A4259 8/10	12851	Y		T

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

TPGW-7D
Nov 2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none">- Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm- Conduct daily prior to use or if CCV fails	<ul style="list-style-type: none">- Read after pressing "Calibrate"- 1 standard at the low end of expected sample reading range but no less than 100 uS/cm- Must be within $\pm 5\%$ of TV	<ul style="list-style-type: none">- Read at the end of the event, or within 24 hrs of initial calibration, whichever is less.- Read only (do not press "calibrate")- Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/14/11	13:23	IR	157236	GEOTECH 1A8217 2/12	1000	1011	Y		π
"	13:30	IC/ICV	"	GEOTECH 1A5221 10/12	5000	PLC=0.977 @ 5117	Y	verified= 4976	π
"	13:32	CCV	"	G.T. See above	1000	982	Y		π
"	13:34	CCV	"	IN-SITU 1A4259 8/12	12,880 ⁹⁴¹	12,767	Y		π

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TP6W-8S
NOV-2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/14/11	11:46	IC	155890	G.T. 1A3217 2/12	1000	1014	Y		TI
"	11:53	IC/ICV	"	G.T. 1A3221	5000	PLC=0.983 @ 5000	Y	Verified = 4965	TI
"	11:54	CCV	"	G.T. 1A3217	1000	995	Y		TI
"	11:56	CCV	"	G.T. OAK079	12,880	12,832	Y		TI

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPGW-8M
NOV-2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/14/11	11:07	IC	154937	G.T. 1AB217	1000	1010	Y		TI
"	11:14	IC/ICV	"	G.T. 1A5221	5000	PCC = 0.984 @ 5078	Y	verified = 4973	TI
"	11:16	CCV	"	G.T. 1AB217	1000	999	Y		TI
"	11:17	CCV	"	G.T. OAK079	12,880	12,780	Y		TI

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TP6W-8D
NOV-2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/14/11	10:19	IC	154926	G.T. 1AB217	1000	997	Y		TT
11/14/11	10:28	IC/ICV	"	G.T. 1AJ221	5000	PCC = 0.970 @ 5151	Y	Verified = 4978	TT
11/14/11	10:29	CCV	"	G.T. 1AB217	1000	977	Y		TT
11/14/11	10:31	CCV	"	G.T. 0AK079	12,880	12,742	Y		TT

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TP6W-95
NOV. 2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/22/11	14:41	IC/TV	196320	G-T. 1AJ221	5,000 μ S	PLC: 1.000 @ 4997.18	Y	verified @ 5,016.23	JA
"	14:45	CCV	"	G-T. 1AB217	1,200 μ S	1010.74	Y		JA
"	14:46	CCV	"	G-T. (1) In-Situ 1AJ361	12,890 μ S	12,838.82	Y		JA

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPGW -95
Nov 2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/22/11	14:46	196320	15050223 15044389	38.12	38.1	Y		dg

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPGW-9M
NOV-2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/22/11	15:15	IR	1902476	G-T. 1AB217	1,000 μ S	1003.60	Y		JS
"	15:21	IC/ICV	"	G-T. 1A5221	5000 μ S	PLC = 0.980 @ 5101.32	Y	UNF-1 @ 4984.34	JS
"	15:24	CW	"	G-T. 1AB217	1,000 μ S	1018.96	Y		JS
"	15:25	CW	"	G-T. 1A5221 m-SIM 1A5361	12,890 μ S	12,906.14	Y		JS

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPGW-9M
Nov 2011

FPL Turkey Point Monitoring Plan
Field Instrument Calibration Form

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/22/11	15:17	190476	15050223 15044389	28.08	28.0	Y		JS

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TP6W-9D
Nov. 2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/22/11	15:55	IC/ICV	197486	G-T. 1A5221	500 μ S	PCL = 0.990 @ 5052.89	Y	ver. Read @ 5,000.21	JA
"	15:58	CCV	"	G-T. 1A8217	1,000 μ S	1,020.21	Y		JA
"	16:00	CCV	"	1H-SFM 1A5361	12,890 μ S	12,708.72	Y		JA

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPGW-9S
Nov 2011
probe pulled
and sent back

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
Phy	5:00 17:08	IC	155889	G-T 145221	5,000	5,349.86	Y		π
"	5:00 17:13	CCV	"	G-T 145217	1,000	1,006	Y		π
"	5:40 17:14	CCV	"	14-sim 145361	12,890	12,831	Y		π

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPGW - 9M
 NOV 2011
 probe pulled
 and sent back

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
12/19/11	4:55	IR	156175	G.T. 1A1221	5,000	5,189	Y		TT
"	5:00	CCV	"	G.T. 1A13217	1,000	1,007	Y		TT
"	5:01	CCV	"	IN-SITU 1A1361	12,890	12,762	Y		TT

¹ = Indicate any failed verifications; all corrective actions taken, any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPGW-91D
Nov 2011
probe pulled
and sent back

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none">- Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm- Conduct daily prior to use or if CCV fails	<ul style="list-style-type: none">- Read after pressing "Calibrate"- 1 standard at the low end of expected sample reading range but no less than 100 uS/cm- Must be within $\pm 5\%$ of TV	<ul style="list-style-type: none">- Read at the end of the event, or within 24 hrs of initial calibration, whichever is less.- Read only (do not press "calibrate")- Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
12/20/11	11:43	IC	153879	G.T. 1A1029	447	441	Y		K
"	11:46	CCV	"	"	447	440	Y		K
"	11:47	CCV	"	G.T. 1A13217	1,000	995	Y		K

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Nov Sept 2011
TPGW-105

**FPL Turkey Point Monitoring Plan
Field Instrument Calibration Form**

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of Initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/9/11	9:41	IR	165871	G.T. 1A6267	50,000	50,876.51	y		JJ
"	9:45	IC/ICV	"	"	"	PLC = 0.984 @ 50,793.40	y	verified @ 49,867.29	JJ
"	9:48	CCV	"	G.T. 1A0234	25,000	24,606.27	y		JJ
"	9:50	CCV	"	G.T. 1A1483	100,000	99,568.01	y		JJ

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Nov Sept 2011
TPGW-10M

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none">- Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm- Conduct daily prior to use or if CCV fails	<ul style="list-style-type: none">- Read after pressing "Calibrate"- 1 standard at the low end of expected sample reading range but no less than 100 uS/cm- Must be within $\pm 5\%$ of TV	<ul style="list-style-type: none">- Read at the end of the event, or within 24 hrs of initial calibration, whichever is less.- Read only (do not press "calibrate")- Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/4/11	9:14	IR	164529	G-T. 1AG267	50,000	50,229.20	y		JA
"	9:22	IC/ICV	"	"	"	PC=6.980 @ 50,991.18	y	verified @ 49,708.79	JA
"	9:26	CCV	"	G-T. 1AD234	25,000	24,263.15	y		JA
"	9:29	CCV	"	G-T. 1AI403	100,000	98,938.90	y		JA

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

NOV ~~Sept~~ 2011
TPGW-10 D

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/4/11	8:50	IC	168177	G.T. 1AG267	50,000 μ S	49,989.79	y		JS
"	8:56	IC/ICV	"	"	"	PCU = 0.786 50,733.06	y	verified @ 50,020.63	JS
"	9:00	CCV	"	G.T. 1A0234	25,000 μ S	24,611.82	y		JS
"	9:02	CCV	"	G.T. 1A1483	100,000 μ S	99,884.31	y		JS

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Nov ~~SEP~~ 2011
TPGW-115

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
4/3/11	14:03	IR	11052209	G.T. 1AG267	59,000	48,759.14	Y		JA
"	14:07	IC/ICV	"	"	"	PLC = 1.012 @ 49,360.88	Y	unfused @ 49,821.41	JA
"	14:11	CCV	"	G.T. 1AD234	25,000	25,326.51	Y		JA
"	14:13	CCV	"	G.T. 1AI483	100,000	100,020.10	Y		JA

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

TPGW-11M
Nov-2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/3/11	13:13	IR	190131	G-T-1A6767	50,000	50,787.16	y		dy
"	13:19	IC/300	"	"	"	PCC = 1.013 @ 49,297.10	y	unified @ 49,694.76	dy
"	13:24	CCW	"	G-T-1A0234	25,000	24,591.06	y		dy
"	13:25	CCW	"	G-T-1A1483	100,000	99,377.68	y		dy

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Nov ~~Sept~~ 2011
TPGW-11D

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
4/3/11	12:31	IC	165277	G.T. 1A6267	50,000	49,889.18	Y		df
"	12:38	IC/SCU	"	"	"	PCC = 1.022 @ 48,856.61	Y	verified @ 49,640.30	df
"	12:42	CCV	"	G.T. 1A2234	25,000	24,835.73	Y		df
"	12:45	CCV	"	G.T. 1A1483	100,000	100,605.04	Y		df

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TP6W-12S
NOV. 2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none">- Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm- Conduct daily prior to use or if CCV fails	<ul style="list-style-type: none">- Read after pressing "Calibrate"- 1 standard at the low end of expected sample reading range but no less than 100 uS/cm- Must be within $\pm 5\%$ of TV	<ul style="list-style-type: none">- Read at the end of the event, or within 24 hrs of initial calibration, whichever is less.- Read only (do not press "calibrate")- Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/29/11	14:16	IC/ICV	193937	G.T. 1A9267	50,000	48564.70	Y	Verified @ 50,217.64	JA
"	14:25	CCV	"	G.T. 1AD234	25,000	25,334.32	Y		JA
"	14:29	CCV	"	G.T. 1A1483	100,000	102,304.04	Y		JA

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TP6W-12M
NOV. 2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/29/11	13:39	IC/ICV	181937	G-T-1A6267	50,000 μ S	49,987.50	Y	checked @ 49,982.70	df
"	13:53	CCV	"	G-T-1A6234	25,000 μ S	24,512.32	Y		df
"	13:55	CCV	"	G-T-1A6483	100,000 μ S	99,065.60	Y		df

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPGW-12D
NOV. 2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none">- Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm- Conduct daily prior to use or if CCV fails	<ul style="list-style-type: none">- Read after pressing "Calibrate"- 1 standard at the low end of expected sample reading range but no less than 100 uS/cm- Must be within $\pm 5\%$ of TV	<ul style="list-style-type: none">- Read at the end of the event, or within 24 hrs of initial calibration, whichever is less.- Read only (do not press "calibrate")- Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/29/11	13:05	IC/ICV	196175	G.T. 1A6267	50,000 μ S	PCC = 1.012 @ 49420.45	y	writes @ 50,343.30	df
"	13:14	CCV	"	G.T. 1A0234	25,000 μ S	24,736.29	y		df
"	13:17	CCV	"	G.T. 1A1483	100,000 μ S	100,539.26	y		df

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPGW-12S
probe pulled
and sent back
Nov 2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
12/2/11	9:05	IR	155925	G.T. 1A6267	50,000	50,667	Y		TT
"	9:09	CCV	"	G.T. 1A0234	25,000	24,969	Y		TT
"	9:10	CCV	"	G.T. 1A1483	100,000	100,125	Y		TT

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPGW-12S
Nov 2011
probe pulled
and sent back

FPL Turkey Point Monitoring Plan
Field Instrument Calibration Form

Parameter: **Temperature, water**

FDEP-SOP Reference: **FT1400**

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
12/4/11	9:07	153925	15050223	23.77	23.5	Y		K

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPGW-12M
probe pulled
and sent back
N or W

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
12/1/11	10:08	IR	157272	G.T. 1AG267	50,000	50,502	Y		TT
"	10:11	CCV	"	G.T. 1AD234	25,000	25,169	Y		TT
"	10:12	CCV	"	G.T. 1AI483	100,000	99,870	Y		TT

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPGW-12D
probe pulled
and sent back
Nov 2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
12/2/11	10:20	IC	153942 153922	G-T. 1A G267	50,000	50,116	Y		π
"	10:22	CCV	"	G-T. 1A D234	25,000	25,167	Y		π
"	10:24	CCV	"	G-T. 1A I483	100,000	99,851	Y		π

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TP6W-135

Nov. 2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/14/11	14:57	IC/ICV	196370	G-T. 1A9267	50,000	ACL=1.006 49,671	Y	verified @ 49,845	SH
"	15:01	CCV	"	G-T. 1A0234	25,000	24,597	Y		SH
"	15:04	CCV	"	G-T. 1A1483	100,000	98,572	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPGW-135
Nov 2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/14/11	15:23	196370	15050223 15044389	30.48	30.0	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TP6W-13M

NOV. 2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none">- Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm- Conduct daily prior to use or if CCV fails	<ul style="list-style-type: none">- Read after pressing "Calibrate"- 1 standard at the low end of expected sample reading range but no less than 100 uS/cm- Must be within $\pm 5\%$ of TV	<ul style="list-style-type: none">- Read at the end of the event, or within 24 hrs of initial calibration, whichever is less.- Read only (do not press "calibrate")- Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/14/11	13:50	IC/ICV	196197	GT. 1A9267	50,000	RC=0.997 @ 50,071	Y	verified @ 49,597	SH
"	13:55	CCV	"	GT. 1A0234	25,000	24,738	Y		SH
"	13:58	CCV	"	GT. 1A1483	100,000	97,747	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TP6W-130
NOV. 2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/14/11	12:38	IC/ICV	181866	G-T. 1A 9267	50,000	PCC=1.009 @49,552	Y	Ver. Fred @ 50,039	SH
"	12:31	CCV	"	G-T. 1A D234	25,000	24,641	Y		SH
"	12:35	CCV	"	G-T. 1A I483	100,000	98,085	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPGW-13D
Nov 2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/14/11	12:15	161866	15050223 15044389	31.32	31.1	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TP6W-145
Nov. 2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none">- Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm- Conduct daily prior to use or if CCV fails	<ul style="list-style-type: none">- Read after pressing "Calibrate"- 1 standard at the low end of expected sample reading range but no less than 100 uS/cm- Must be within $\pm 5\%$ of TV	<ul style="list-style-type: none">- Read at the end of the event, or within 24 hrs of initial calibration, whichever is less.- Read only (do not press "calibrate")- Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/3/11	10:37	IR	155924	G-T. 1A4267	50,000	52,423.14	y		JA
"	10:45	IC/ICV	"	"	"	PCC = 0.988 @ 50,587.83	y	services @ 49,609.35	JA
"	10:49	CCV	"	G-T. 1A0234	25,000	24,692.24	y		JA
"	10:53	CCV	"	G-T. 1A1483	100,000	97,730.1	y		JA

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPGW-14S
Nov 2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/3/11	10:41	155924	15050222 15044349	23.80	23.7	Y		JF

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TP6W-14M
NOV-2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/3/11	9:08	IR	156137	G.T. 1A4267	50,000 μ S	50,974.09	y		JJ
"	10:15	Ic/ICV	"	"	"	PCL = 0.987 @ 50,012.35	y	verified @ 49,727.77	JJ
"	10:20	CCV	"	G.T. 1A0234	25,000 μ S	24,951.16	y		
"	10:24	CCV	"	G.T. 1A1483	100,000 μ S	98,118.16	y		

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TP6W-14 D
NOV-2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none">- Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm- Conduct daily prior to use or if CCV fails	<ul style="list-style-type: none">- Read after pressing "Calibrate"- 1 standard at the low end of expected sample reading range but no less than 100 uS/cm- Must be within $\pm 5\%$ of TV	<ul style="list-style-type: none">- Read at the end of the event, or within 24 hrs of initial calibration, whichever is less.- Read only (do not press "calibrate")- Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/3/11	8:35	IR	456192	G.T. 1A4267	50,000 μ S	50,390.11	y		JJ
"	9:46	IC/ICV	"	"	"	PCC = 0.992 @ 50,343.53	y	verified @ 49,945.77	JJ
"	9:50	CCV	"	G.T. 1A4231	25,000 μ S	24,981.49	y		JJ
"	9:53	CCV	"	G.T. 1A4483	100,000 μ S	99,237.79	y		JJ

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

NOVEMBER 2011 Surface Water

Nov 2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/11/11	12:52	IC	155414	G.T. 1A1483	100,000	100,067	Y		TT
"	13:03	IC/ICV	"	G.T. 1A14267	50,000	PCC = 0.994 @ 50,309	Y	verified = 49,901	ET
"	13:05	CCV	"	G.T. 1A1234	25,000	24,662	Y		TT
"	13:07	CCV	"	G.T. 1A1483	100,000	100,124	Y		TT

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none">- Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm- Conduct daily prior to use or if CCV fails	<ul style="list-style-type: none">- Read after pressing "Calibrate"- 1 standard at the low end of expected sample reading range but no less than 100 uS/cm- Must be within $\pm 5\%$ of TV	<ul style="list-style-type: none">- Read at the end of the event, or within 24 hrs of initial calibration, whichever is less.- Read only (do not press "calibrate")- Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/15/11	9:17	IC	177085	G.T. 1A I 483	100,000	99,846	Y		TI
"	9:25	IC/ICV	"	G.T. 1A G 267	50,000	RC = 0.983 @ 50,815	Y	verified = 49605	TI
"	9:27	CCV	"	G.T. 1A D 234	25,000	24,473	Y		TI
"	9:28	CCV	"	G.T. 1A T 483	100,000	97,988	Y		TI

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPSWCES-2B
Nov 2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/15/11	9:20	177085	15050223 15044389	28.39	28.6	Y		TT

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Nov 2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/16/11	14:41	IC/ICV	156491	G.T. 1A6267	50,000	PCC=0.999 @50,051	Y	verified = 50,020	TJ
"	14:42	CCV	"	G.T. 1AD234	25,000	24,620	Y		TJ
"	14:44	CCV	"	G.T. 1A1483	100,000	97,841	Y		TJ

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPSWCCS - 3B
Nov 2011
pulled probe
and sent
back

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/18/11	11:00	IC/ICV	150361	G-T. 1A4267	50,000	RC=0.979 @57,034	Y	Verified = 50,045	TA
"	11:01	CCV	"	G-T. 1A0234	25,000	24,420	Y		TA
6	11:02	CCV	"	G-T. 1A1483	100,000	96,738	Y		TA

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Nov 2011

**FPL Turkey Point Monitoring Plan
Field Instrument Calibration Form**

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/7/11	11:15	IR	156473 (T)	G.T. 1A6267	50,000	50,461.52	y		JA
"	11:24	IC/ICV	"	"	"	PLC = .990 @ 50,440.57	y	checked @ 49,544.37	JA
"	11:30	CCV	"	G.T. 1AD234	25,000	24,155.58	y		JA
"	11:33	CCV	"	G.T. 1AI483	100,000	99,244.05	y		JA
"	11:38	IR	155834 (B)	G.T. 1A6267	50,000	52,148.44	y		JA
"	11:43	IC/ICV	"	"	"	PLC = .990 @ 50,142.66	y	checked @ 49,923.19	JA
"	11:49	CCV	"	G.T. 1AD234	25,000	24,377.36	y		JA
"	11:54	CCV	"	G.T. 1AI483	100,000	99,464.81	y		JA

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPSWCCS--4B
-4T
Nov 2011

FPL Turkey Point Monitoring Plan
Field Instrument Calibration Form

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/7/11	11:20	150473 (T)	15050222 15044349	27.49	27.7	y		JS
11	11:41	155834 (B)	"	25.87	25.9	y		JS

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPSWCCS SB
ST

Nov 2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none">- Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm- Conduct daily prior to use or if CCV fails	<ul style="list-style-type: none">- Read after pressing "Calibrate"- 1 standard at the low end of expected sample reading range but no less than 100 uS/cm- Must be within $\pm 5\%$ of TV	<ul style="list-style-type: none">- Read at the end of the event, or within 24 hrs of initial calibration, whichever is less.- Read only (do not press "calibrate")- Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
4/7/11	10:16	IR	156471 (T)	G.T. 1A1483	100,000 μ S	101,671.21	y		jt
"	10:20	IC/ICV	"	G.T. 1A6267	50,000 μ S	PCL = 1.008 @ 49,539.05	y	verified @ 49,858.16	jt
"	10:23	CCV	"	G.T. 1A0234	25,000 μ S	24,371.00	y		jt
"	10:26	CCV	"	G.T. 1A1483	100,000 μ S	100,584.04	y		jt
"	10:30	IR	155886 (B)	"	100,000 μ S	99,012.56	y		jt
"	10:38	IC/ICV	"	G.T. 1A6267	50,000 μ S	PCL = 1.018 @ 48,960.72	y	verified @ 50,050.94	jt
"	10:41	CCV	"	G.T. 1A0234	25,000 μ S	24,821.74	y		jt
"	10:44	CCV	"	G.T. 1A1483	100,000 μ S	100,485.21	y		jt

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPSWCCS-SB
-ST
Nov 2011

FPL Turkey Point Monitoring Plan
Field Instrument Calibration Form

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/7/11	10:17	150471 (1)	15050222 15044349	25.57	25.5	y		ST
"	10:34	155886 (3)	"	26.71 ST	26.6	y		ST

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPSWCCS 6B
6T
Nov 2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none">- Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm- Conduct daily prior to use or if CCV fails	<ul style="list-style-type: none">- Read after pressing "Calibrate"- 1 standard at the low end of expected sample reading range but no less than 100 uS/cm- Must be within $\pm 5\%$ of TV	<ul style="list-style-type: none">- Read at the end of the event, or within 24 hrs of initial calibration, whichever is less.- Read only (do not press "calibrate")- Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/7/11	13:09	IR	156297 (T)	G-T-1A6267	50,000 μ S	52,746.79	N		JA
"	13:16	IC/ICV	"	"	"	PCC = 1.017 @ 49,140.65	Y	verified @ 49,719.73	JA
"	13:19	CCV	"	G-T-1A0234	25,000 μ S	24,589.08	Y		JA
"	13:21	CCV	"	G-T-1A1483	100,000 μ S	98,679.64	Y		JA
"	13:28	IR	186138 (B)	G-T-1A6267	50,000 μ S	48,984.77	Y		JA
"	13:32	IC/ICV	"	"	"	PCC = 0.998 @ 50,151.05	Y	verified @ 50,040.37	JA
"	13:39	CCV	"	G-T-1A0234	25,000 μ S	24,527.62	Y		JA
"	13:43	CCV	"	G-T-1A1483	100,000 μ S	99,657.33	Y		JA

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPSWCS -6B
-6T

Nov 2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/7/11	13:12	156297 (T)	15850222 15044349	29.06	28.7	Y		JA
"	13:28	186138 (B)	"	28.28	28.2	Y		JA

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Nov 2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/16/11		IC	156626		100,000				TT
11/16/11	13:56	IC/ICV	156626	G.T. 1A9267	50,000	900=0.991 49,486	Y	Verified = 49,901	TT
"	13:58	CCV	"	G.T. 1AD234	25,000	24,648	Y		TT
"	14:00	CCV	"	G.T. 1A1483	100,000	98,016	Y		TT

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPSWCCS - 7B
Nov 2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/14/11	14:02	150626	15050223 15044381	29.84	29.8	Y		TJ

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPSWCCS - 7B
 Nov 2011
 pulled probe
 and sent back

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/18/11	11:14	IC/ICV	155247	G-T. 1AG267	50,000	RC = 0.957 @ 52,231	Y	Verified = 49,979	TK
"	11:14	CCV	"	G-T. 1AD234	25,000	23,818	Ⓢ X		TK
"	11:18	CCV	"	G-T. 1AI483	100,000	94,452	Y		TK

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPSWC - 1B
1T
Nov 2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/11/11	14:34	IR	155896 (1B)	G.T. 1AB217	1,000	1,049	Y		SH
"	14:44	IC/ICV	"	G.T. 1AJ221	5,000	RC=0.986 @5070	Y	verified @ 4977	SH
"	14:46	CCV	"	G.T. 1AB217	1,000	1,013	Y		SH
"	14:47	CCV	"	G.T. 0AK079	12,880	12,854	Y		SH
11/11/11	14:19	IR	155906 (1T)	G.T. 1AB217	1,000	1,024	Y		SH
"	14:26	IC/ICV	"	G.T. 1AJ221	5,000	RC=0.987 @5061	Y	verified @ 4963	SH
"	14:27	CCV	"	G.T. 1AB217	1,000	995	Y		SH
"	14:30	CCV	"	G.T. 0AK079	12,880	12,580	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPSWC - 1B

1T

Nov 2011

FPL Turkey Point Monitoring Plan
Field Instrument Calibration Form

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
 Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
 Quarterly verification at temperatures above and below the range
 of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/11/11	14:21	155906 (1T)	15050223 13044389	23.49	23.4	Y		SH
"	14:40	155896 (1B)	"	23.82	23.7	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPSWC - 2B
- 2T

Nov 2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none">- Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm- Conduct daily prior to use or if CCV fails	<ul style="list-style-type: none">- Read after pressing "Calibrate"- 1 standard at the low end of expected sample reading range but no less than 100 uS/cm- Must be within $\pm 5\%$ of TV	<ul style="list-style-type: none">- Read at the end of the event, or within 24 hrs of initial calibration, whichever is less.- Read only (do not press "calibrate")- Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/11	15:49	IR	156485 (T)	G-T. 1AB217	1,000	1034	Y		TT
"	15:55	IC/ICV	"	G-T. 1A5221	5,000	PCC=1.022 @ 4890	Y	verified = 4984	TT
"	15:58	CCV	"	G-T. 1AB217	1,000	1042	Y		TT
"	15:59	CCV	"	G-T. 0AK079	12,880	12896	Y		TT
11/11	16:01	IR	156188 (A)	G-T. 1AB217	1,000	1040	Y		TT
"	16:08	IC/ICV	"	G-T. 1A5221	5,000	PCC=1.019 @ 4902	Y	verified = 4973	TT
"	16:10	CCV	"	G-T. 1AB217	1,000	1031	Y		TT
"	16:11	CCV	"	G-T. 0AK079	12,880	12865	Y		TT

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TBWC-2B
2T
Nov 2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/11/11	15:52	156485 (T)	15050223 15044389	23.73	23.8	Y		TT
"	16:05	156188 (6)	"	23.11	23.3	Y		TT

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPSW 3B
3T

Nov 2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 $\mu\text{S}/\text{cm}$ Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 $\mu\text{S}/\text{cm}$ Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading ($\mu\text{S}/\text{cm}$)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/16/11	3:32	IC	156376 (3S)	G-T. 1A8221	5,000	5,247	Y		SH
"	15:40	IC/ICV	"	"	5,000	REC-0987 @ 5064	Y	verified @ 4999	SH
"	15:41	CCV	"	G-T. 1A8217	1,000	1,001	Y		SH
"	15:42	CCV	"	G-T. 0AK079	12,880	12,743	Y		SH
11/16/11	15:45	IR	155379 (3T)	G-T. 1A8217	1,000	1,026	Y		SH
"	15:53	IC/ICV	"	G-T. 1A8221	5,000	REC-0989 @ 5052	Y	verified @ 4982	SH
"	15:54	CCV	"	G-T. 1A8217	1,000	1,002	Y		SH
"	15:55	CCV	"	G-T. 0AK079	12,880	12,630	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TFSWC -3B
 3T
 Nov 2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
 Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
 Quarterly verification at temperatures above and below the range
 of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/14/11	15:34	156376 (B)	15050723 15044389	29.24	29.3	Y		SH
11/14/11	15:37	155379 (T)	..	28.91	29.0	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPSWC 4B
4T
Nov 2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none">- Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm- Conduct daily prior to use or if CCV fails	<ul style="list-style-type: none">- Read after pressing "Calibrate"- 1 standard at the low end of expected sample reading range but no less than 100 uS/cm- Must be within $\pm 5\%$ of TV	<ul style="list-style-type: none">- Read at the end of the event, or within 24 hrs of initial calibration, whichever is less.- Read only (do not press "calibrate")- Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/8/11	9:28	IR	191182 (T)	Greiner IAD234	25,000 μ S	24,992.31	y		JS
"	9:35	IC/ICV	"	"	"	PLC = 1.015 @ 24,609.34	y	verified @ 24,869.95	JS
"	9:39	CCV	"	Greiner OAK079	12,880 μ S	12,962.98	y		JS
"	9:41	CCV	"	Greiner IAG267	50,000 μ S	49,998.79	y		JS
"	9:45	IR	156155 (B)	Greiner IAD234	25,000 μ S	24,897.21	y		JS
"	9:53	IC/ICV	"	"	"	PLC = 1.021 @ 24,455.45	y	verified @ 24,813.34	JS
"	9:58	CCV	"	Greiner OAK079	12,880 μ S	12,980.51	y		JS
"	10:04	CCV	"	Greiner IAG267	50,000 μ S	50,179.60	y		JS

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TIPSWC-4B
4T
Nov 2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/8/11	9:31	191182 (T)	15050222 15044349	23.65	23.5	y		jj
"	9:50	150155 (B)	"	25.08	24.8	y		jj

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPSWC 5B
ST
Nov 2014

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none">- Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm- Conduct daily prior to use or if CCV fails	<ul style="list-style-type: none">- Read after pressing "Calibrate"- 1 standard at the low end of expected sample reading range but no less than 100 uS/cm- Must be within $\pm 5\%$ of TV	<ul style="list-style-type: none">- Read at the end of the event, or within 24 hrs of initial calibration, whichever is less.- Read only (do not press "calibrate")- Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/8/14	10:52	IR	155425 (T)	Green 1A6267	50,000 uS	50,355.41	y		jj
"	11:00	FL/SW	"	"	"	PLC=1.004 @ 49,747.14	y	verified @ 49,745.35	jj
"	11:03	CU	"	Green 1A0234	25,000 uS	25,070.04	y		jj
"	11:06	CU	"	Green 1A1483	100,000 uS	98,723.86	y		jj
"	11:11	IR	156104 (B)	Green 1A6267	50,000 uS	50,823.75	y		jj
"	11:18	FL/SW	"	"	"	PLC=1.009 @ 49,503.18	y	verified @ 49,546.09	jj
"	11:24	CU	"	Green 1A0234	25,000 uS	25,032.13	y		jj
"	11:31	CU	"	Green 1A1483	100,000 uS	99,336.55	y		jj

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPSW C-5B
-5T
Nov 2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/8/11	10:56	153425 (T)	15050222 15044349	27.66	27.4	y		JJ
"	11:15	156164 (B)	"	28.73	28.4	y		JJ

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TP SW 1 D 1B
1T

Nov 2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none">- Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm- Conduct daily prior to use or if CCV fails	<ul style="list-style-type: none">- Read after pressing "Calibrate"- 1 standard at the low end of expected sample reading range but no less than 100 uS/cm- Must be within $\pm 5\%$ of TV	<ul style="list-style-type: none">- Read at the end of the event, or within 24 hrs of initial calibration, whichever is less.- Read only (do not press "calibrate")- Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/11/11	11:40	IR	156062 (T)	G.T. 1A5221	5000	5092	Y		SH
"	11:50	IC/ICV	"	"	5000	SC=0.994 @ 5006	Y	Verified @ 4969	SH
"	11:57	CCV	"	G.T. 1A5217	1000	999.95	Y		SH
"	11:59	CCV	"	G.T. OAK079	12,880	12,664	Y		SH
11/11/11	12:06	IR	155421 (B)	G.T. 1A5221	5000	5,144	Y		SH
"	12:16	IC/ICV	"	"	5000	SC=0.995 @ 5016	Y	Verified @ 4968	SH
"	12:17	CCV	"	G.T. 1A5217	1000	1000.23	Y		SH
"	12:20	CCV	"	G.T. OAK079	12,880	12,520	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPSWID -1B
-1T
NW 2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/11/11	11:51	156062 (7)	15050223 15044348	22.15	21.8	Y		SH
"	12:11	155421 (8)	"	22.29	22.1	Y		SH

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPSWID-2T
~~Nov/Dec-2~~ Nov 2011
 π probe pulled
 and sent back

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none">- Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm- Conduct daily prior to use or if CCV fails	<ul style="list-style-type: none">- Read after pressing "Calibrate"- 1 standard at the low end of expected sample reading range but no less than 100 uS/cm- Must be within $\pm 5\%$ of TV	<ul style="list-style-type: none">- Read at the end of the event, or within 24 hrs of initial calibration, whichever is less.- Read only (do not press "calibrate")- Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
12/19/11	4:09	IC	155346	G.T. 1A3217	1000	1041	Y		π
"	4:12	CCV	"	geotech 1A1029	447	460	Y		π
"	4:13	CCV	"	G.T. 1A5221	5000	5121	Y		π

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPS W 1D-2B
Nov 2011
probe pulled
and sent back

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none">- Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm- Conduct daily prior to use or if CCV fails	<ul style="list-style-type: none">- Read after pressing "Calibrate"- 1 standard at the low end of expected sample reading range but no less than 100 uS/cm- Must be within $\pm 5\%$ of TV	<ul style="list-style-type: none">- Read at the end of the event, or within 24 hrs of initial calibration, whichever is less.- Read only (do not press "calibrate")- Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
12/19/11	4:24	IC	151997	G-T. 1AJ221	5000	4901	Y		TT
"	4:28	CCV	"	G-T. 1AJ217	1000	1026	Y		TT
"	4:29	CCV	"	1u-sim 1AJ36.1	12,890	12,686	Y		TT

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPSWID-2B
Nov 2011
probe prilled
and sent back

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
12/19/11	4:27	151997	15050223 15044809	23.83	23.6			TT

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPSW 1D 2B
2T

Nov 2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/29/11	10:13	IC/SCW	198843 (T)	G-T-1A5221	5,000	PCC = 1.01 @ 4947.74	y	verified @ 5005.09	JS
"	10:17	CCW	"	G-T-1A5217	1,000	999.01	y		JS
"	10:19	CCW	"	G-T-0A1079	12,880	12,678.90	y		JS
"	10:29	IC/SCW	196312 (B)	G-T-1A5221	5,000	PCC = 1.006 @ 4967.19	y	verified @ 4994.56	JS
"	10:35	CCW	"	G-T-1A5217	1,000	993.11	y		JS
"	10:37	CCW	"	G-T-0A1079	12,880	12,564.36	y		JS
		IR	JS						

I = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPSWID-3T
 (Nov 2011)
 probe pulled
 and sent
 back

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
12/26/11	11:21	IR	157516	G.T. 1AJ221	8000 5,000	5,151	Y		TT
"	11:26	CCV	"	G.T. 1AB217	1,000	1,024	Y		TT
"	11:28	CCV	"	In-Situ 1AJ361	12,890	12,942	Y		TT

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPSW ID-3B
Nov 2011
probe pulled
to sent back.

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: Specific conductance

FDEP-SOP Reference: FT1200

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
12/20/11	11:32	IC	156128	G.T. 1AB217	5000	5,234	Y		TK
"	11:34	CCV	"	G.T. 1AJ221	1000	1027	Y		TK
"	11:35	CCV	"	In-Situ 1AJ361	12,890	13,123	Y		TK

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPSW10-3B
Nov 2011
probe pulled
to sent back.

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
12/20/11	11:33	156128	15850223 15044389	23.53	23.4	Y		TA

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Nov 2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
4/29/11	11:32	IC/IW	199014 (T)	G-T-1A5221	PLV = 85 @ 5,000	PLC = 1.079 @ 4862.61	Y	rechecked @ 4967.57	JS
"	11:40	CCV	"	G-T-1A3217	1,000	1012.09	Y		JS
"	11:45	CCV	"	G-T-0AK079	12,880	12,724.35	Y		JS
"	11:50	IC/IW	196193 (A)	G-T-1A5221	PLV = 89 @ 5,000	PLC = 1.030 @ 4849.8	Y	rechecked @ 4978.61	JS
"	12:00	CCV	"	G-T-1A3217	1,000	1015.12	Y		JS
"	12:01	CCV	"	G-T-0AK079	12,880	12,817.68	Y		JS

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

BBSW-1
N8 2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none">- Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm- Conduct daily prior to use or if CCV fails	<ul style="list-style-type: none">- Read after pressing "Calibrate"- 1 standard at the low end of expected sample reading range but no less than 100 uS/cm- Must be within $\pm 5\%$ of TV	<ul style="list-style-type: none">- Read at the end of the event, or within 24 hrs of initial calibration, whichever is less.- Read only (do not press "calibrate")- Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/1/11	11:33	IC	196168	60000 1A7267	50,000 ~1	PL1-1.005 @49,833.33	y	verified @ 50,155.08.	df
"	11:34	CCV	"	G.T. 140234	25,000 ~1	24,104.15	y		df
"	11:37	CCV	"	G.T. 1A1483	100,000 ~1	101,666.90	y		df

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

BBSW-1
NW 2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/11	11:42	196168	15058222 15044349	24.63	24.3	Y		OK

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

BBSW-2
Nov 2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/1/11	10:51	IC	194199	GOREL 1A17267	50,000 ~5	PCC = 1.013 @ 49,338.90	y	over 50,228.08	JA
"	10:59	CCV	"	G.T. 1A1234	25,000 ~5	24,626.16	y		JA
"	11:01	CCV	"	G.T. 1A1483	100,000 ~5	102,182.87	y		JA

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPBBSW-3
NW 2a1

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/3/11	13:37	IR	156060	G.T. 1A0234	25,000 μ S	24,845.76	Y		JA
"	13:45	IC/ICV	"	G.T. 1A0267	50,000 μ S	RL = 0.994 @ 50,213.97	Y	verified @ 49,673.35	JA
"	13:50	CCV	"	G.T. 1A0234	25,000 μ S	25,006.40	Y		JA
"	13:52	CCV	"	G.T. 1A1403	100,000 μ S	99,115.74	Y		JA

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1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

BBSW-4
NW 2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/1/11	10:07	IC	196202	G.T. 1A5267	50,000 uS	50,996.44	Y	50,941.58	df
"	10:15	CCV	"	G.T. 1AD234	25,000 uS	24,417.04	Y		df
"	10:17	CCV	"	G.T. 1AI483	100,000 uS	101,820.40	Y		df
						(101,820.40)			

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

BBSW 4
Nov 2011

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: Temperature, water

FDEP-SOP Reference: FT1400

QAPP Requirements: Monthly verification against NIST-traceable thermometer
Must be within $\pm 0.5^{\circ}\text{C}$ of NIST-traceable readings
Quarterly verification at temperatures above and below the range
of sample readings for the quarter

Date	Time	Instrument or meter ID	NIST- Traceable Thermometer ID	Instrument or meter reading (Deg C)	NIST Thermometer reading (Deg C)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/1/11	10:12	196202	1505044434 222 15644349	24.46	24.5	Y		df

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Nov 2017
BBSW-5

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> - Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm - Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> - Read after pressing "Calibrate" - 1 standard at the low end of expected sample reading range but no less than 100 uS/cm - Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> - Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. - Read only (do not press "calibrate") - Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/1/17	9:25	IC	195215	G-20RM 1A6267	50000 uS	PCC = 994 @ 50,310.21	Y	verified @ 49,822.32	JA
"	9:32	CCV	"	G-T. 1A0221	25,000 uS	24,130.89	Y		JA
"	9:34	CCV	"	G-T. 1A1483	100,000 uS	101,213 uS	Y		JA

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1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

Nov 28th
TPBBSW-10

FPL Turkey Point Monitoring Plan **Field Instrument Calibration Form**

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none">- Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm- Conduct daily prior to use or if CCV fails	<ul style="list-style-type: none">- Read after pressing "Calibrate"- 1 standard at the low end of expected sample reading range but no less than 100 uS/cm- Must be within $\pm 5\%$ of TV	<ul style="list-style-type: none">- Read at the end of the event, or within 24 hrs of initial calibration, whichever is less.- Read only (do not press "calibrate")- Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/4/11	8:58	IC	156390	G.T. 1A5234	25,000 μ S	24,669.04	y		df
"	10:07	IC/TV	"	G.T. 1A9267	50,000 μ S	PCC = .996 @ 50,243.02	y	verified @ 49,931.76	df
"	10:06	CCV	"	G.T. 1A0234	25,000 μ S	24,474.50	y		df
"	10:11	CCV	"	G.T. 1A1483	100,000 μ S	99,582.32	y		df

¹ = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.

TPBBSW-14
Nov 2011

FPL Turkey Point Monitoring Plan Field Instrument Calibration Form

Parameter: **Specific conductance**

FDEP-SOP Reference: **FT1200**

QAPP Requirements:

Initial Calibration	Initial Calibration Verification (ICV)	Continuing Calibration Verification (CCV)
<ul style="list-style-type: none"> Use 1 standard at the upper end of expected sample reading range but no less than 720 uS/cm Conduct daily prior to use or if CCV fails 	<ul style="list-style-type: none"> Read after pressing "Calibrate" 1 standard at the low end of expected sample reading range but no less than 100 uS/cm Must be within $\pm 5\%$ of TV 	<ul style="list-style-type: none"> Read at the end of the event, or within 24 hrs of initial calibration, whichever is less. Read only (do not press "calibrate") Two standards that bracket the sample value range. Must be within $\pm 5\%$ of TV

Date	Time	Operation (IC, ICV, CCV)	Instrument or meter ID	Calibration Standard (ID & Lot#)	Calibration Standard Reference Value (TV)	Instrument or Meter Reading (uS/cm)	Acceptance Criteria Met? (Y/N)	Comments ¹	Calibration verified by
11/3/11	8:57	IR	156284	Crocker 1AD234	25,000 μ S	24,800.07	y		JF
"	9:02	IC/ICV	"	Crocker 1A6267	50,000 μ S	49,903.02	y	ver: Res @ 49,759.80	JF
"	9:06	CCV	"	Crocker 1AD234	25,000 μ S	24,502.59	y		JF
"	9:09	CCV	"	Crocker 1A1483	100,000 μ S	99,073.96	y		JF

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1 = Indicate any failed verifications; all corrective actions taken; any maintenance performed.