

# ELECTRONICS TEST CENTRE

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## TEST RESULTS

FOR THE

**X26 Conducted Energy Weapon (CEW)**

IN ACCORDANCE WITH

**TASER International Device Specifications**

**CEWs Evaluated in this Report: 82**

**Report No.:** B36R9026B1

**Customer P.O. No.:** SGPSD091566826

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ISO/IEC 17025: 2005

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## 1 INTRODUCTION

### 1.1 PURPOSE

The purpose of this report is to present the findings and results of testing performed on the X26 Conducted Energy Weapons (CEW) in accordance with the applicable guidelines provided by TASER International.

### 1.2 SCOPE

The scope of the documented tests is limited to the test samples provided by the British Columbia Solicitor General. A total of 82 CEWs have been evaluated in this report. The results contained in this report relate only to the item(s) tested.

The Electronics Test Centre is ISO/IEC 17025 accredited.

### 1.3 REVISION STATUS

Version	Date Issued	Reason for Issue / Re-Issue
0	March 17, 2009	Initial Release
1	March 20, 2009	Draft 2
2	March 23, 2009	Draft 3
3	April 3, 2009	Final
4	April 6, 2009	Final – correction to front page- removed word “Introduction” in front of Version: 3

## 1.4 APPLICABLE DOCUMENTS

### 1.4.1 Government documents

ISO/IEC 17025:2005      General requirements for the competence of testing and calibration laboratories

### 1.4.2 TASER International documents

TASER  
Peak Arcing Voltage  
Tolerance      Peak arcing voltage measurement of TASER X26™ and TASER M26™ devices, Magne Nerheim, Vice President Research and Development, TASER International, dated May 21, 2008.

TASER  
Performance Criteria      Letter to H.D.M. Madill, Deputy Commissioner, and RCMP from Magne Nerheim, Vice President Research and Development, TASER International, dated December 15, 2008.

TASER  
Customer Performance  
Criteria      Customer Testing of TASER X26™ and Advanced TASER M26™ Note from Magne Nerheim, Vice President Research and Development, TASER International, dated January 19, 2009.

TASER  
2005 International Test  
Procedure      TASER International Test Procedure - Measurement of Open Circuit Voltage, Load Voltage and Load Current, 23 July 2005. Appendix C to Testing of Conducted Energy Weapons: TASER X26™ Electrical Performance Evaluation, Canadian Police Research Centre.

TASER  
Electrical Characteristics      TASER Electronic Control Devices Electrical Characteristics - X26™. February 1, 2009.

TASER  
Device Specifications      TASER X26™ Series Electronic Control Device Specifications (Law Enforcement X26). Version 2.0. February 6, 2009.

### 1.4.3 Company documents

TASER Model X26 Test  
Concepts      TASER Model X26 Test Concepts, Ian P.W. Sinclair, MPB Technologies Inc. Version 5. March 30, 2009.

## 1.5 DEFINITIONS

The terms used in this report are defined in ANSI C63.14. In addition, the following definitions are applicable for the purpose of this report.

### 1.5.1 Acronyms used in this test report

- a) EUT      - Equipment Under Test
- b) CEW      - Conducted Energy Weapon (also referred as TASER X26™ or TASER M26™)
- c) TI      - TASER International

## **2 EQUIPMENT UNDER TEST**

The CEW test samples were provided by the British Columbia Solicitor General.

The CEWs are manufactured by TASER International of Scottsdale, AZ 85255-6311 USA.

## **3 TEST CRITERIA AND EXPLANATION**

Please refer to Company Documents (Section 1.4.3) above for a list of documentation pertaining to the CEW waveform parameters.

### **3.1 PRESENTATION OF RESULTS**

The results of the tests are presented in two formats. Section 4 of this report contains the executive summary of the overall status for all devices tested. Section 5 contains the detailed test results for each device.

Section 4 is a summary of the final results for each device tested. This table includes the serial number of each device followed by its overall status ("In Tolerance", "Above Tolerance" and/or "Below Tolerance"). The overall status of each device was determined using only the TI Operating Parameters and the TI calculation method.

The detailed test results presented in Section 5 includes all the measured parameters and calculations conducted during testing. Typically, there will only be one results page for each CEW unless the CEW was subject to further investigation. (Any device subject to further investigation is included in Section 6).

The results for each CEW under test are presented in four tables: CEW Details, Overall CEW Status, TI CEW Operating Parameters, and Supplemental Parameters. These tables are explained below.

#### **CEW Details:**

"CEW Details" at the upper left of each page provides information pertaining to the CEW. Battery Status, CEW Temperature and Software Revision are read from the CEW LED display. In case this display is not operational, the numeric data are replaced by "xx". Measured values of the load resistance and pertinent comments are entered as appropriate.

#### **Overall CEW Status:**

"Overall CEW Status" at the upper right of each page indicates if the CEW under test is in or out of tolerance in any of the five parameters that are assessed in the table "TI CEW Operating Parameters". A device is found "In Tolerance" when the performance results fall within the TI parameter limits. A device is found "Above Tolerance" or "Below Tolerance" when the performance results fall outside the limits established for any of the TI CEW Operating Parameters. It is "Above / Below Tolerance" when above the limit in one parameter and below the limit in another parameter.

**TI CEW Operating Parameters:**

“TI (TASER International) CEW Operating Parameters” contains the test results for which the manufacturer’s operating specifications are applicable. The measured values are highlighted on the sample results page. For each such parameter, the “Compliance as Found” column indicates if the value is in or out of tolerance.

In accordance with the TASER International Test Procedure, device performance is measured using five Operating Parameters:

- Pulse Duration
- Main Phase Net Charge
- Main Phase Peak Voltage
- Main Phase Peak Current
- Pulse Repetition Rate

Pulse duration, Main Phase Net Charge, and Main Phase Peak Voltage are calculated by averaging last eight pulses of each cycle. (This is equivalent to setting a digital oscilloscope to maintain a running average of eight pulses.) Main Phase Peak Current is added as a measurement that is equivalent to the peak voltage divided by the load resistance. Pulse repetition rate is measured over all pulses in the cycle. (“Cycle” is a 5-second burst of pulses initiated by a single trigger pull).

These measures and their significance are discussed in greater detail in the ETC Taser Model X26 Test Concepts (see Section 1.4.3).

The information in this table has been extracted from the third table, Supplemental Test Parameters. The relevant cells in this table are highlighted on the sample results page.

**Supplemental Parameters:**

The supplemental parameters table contains a detailed summary of all measurements and alternative methods of performance calculation carried out during testing. While the operating parameters used to calculate overall status are included in this table, most of the data included and methods of performance calculation presented go beyond the specified TI CEW Operating Parameters. The data in this table was collected to support research into a standardized international output test protocol and was not used to determine the overall status of a device.

The supplemental parameter table shows various descriptions of device performance including:

- Pulse duration and pulse rate
- Pulse measurements at different times: during arc phase, main phase and for a full pulse
- Standard deviation (Column D) of all pulses in a 5-second cycle. Standard deviation indicates the spread of values in a data set. A low standard deviation indicates that the data points tend to be very close to the same value (a mean), while high standard deviation indicates that the data are “spread out” over a large range of values.
- Maximum (Column H) value and minimum (Column I) value for each parameter measured during a full cycle. The maximum and minimum are selected from the one pulse out of all possible pulses in a 5 second cycle that exhibits the highest or lowest value for that parameter.
- Total number of pulses in a cycle and the duration of the cycle. Duration is the time from the start of the first pulse to the end of the last pulse in a cycle
- Pulse rate per second, or the total number of pulses in the cycle divided by the time from the start of the first pulse to the start of the last pulse
- Charge per second is computed by multiplying the full cycle average of the Main Phase Net Charge by the Pulse Rate

- Energy per second is computed by multiplying the full cycle average of the Full Pulse Energy by the Pulse Rate

The supplemental parameters presented in the table are described in greater detail in ETC Taser Model X26 Test Concepts (see Section 1.4.3).

The supplemental table also includes four alternative performance calculation methods. These methods have been used by various researchers evaluating CEW performance. The calculation methods differ in two areas. They differ in the number of pulses used to calculate the average for comparison against the TI standard and they differ in where in the 5-second cycle the data used in the calculation is collected. The four calculation methods are:

- Average of all pulses produced in a full cycle (typically 90 pulses) (Column C)
- First 8 pulses generated in a cycle (Column E)
- Last 8 pulses generated in a cycle (Column F)
- 8 maximum values recorded for each parameter during a cycle (Column G)

### **3.2 TEST PROCEDURE**

Unless otherwise stated, all CEWs have been spark tested for a period of no less than one pull of the CEW trigger (approximately 5-seconds) prior to the formal measurements being recorded. If during the spark test, the CEW exhibited noticeably unusual or abnormal behaviour, the CEW was subject to further investigation. Unusual behaviour includes items such as failure of the CEW to fire, delayed firing, pulse rate excessively slow, failure to fire for the entire cycle duration, the CEW resetting midway through a cycle and so on. If abnormal behaviour was noted the first course of action was to ensure the battery terminals are clear of debris and to ensure that the battery pack was firmly seated.

Unusual behaviour of the CEW is explored in greater detail in Section 6 of this report.

The test consisted of fitting the unit into a 600-ohm non-inductive test jig and pulling the trigger. Spark test data was then recorded for a period of ten seconds. This included the 5-second cycle plus additional time, in order to account for pulses that could possibly have occurred after five seconds.

During the second trigger pull, a continuous set of data was recorded for a period of ten seconds. This second data set was used to visually verify, in real time, that the CEW was functioning as expected.

The trigger was pulled one last time and detailed data for each pulse was recorded at high resolution. This third set was used for the subsequent analysis. The sample gates were left open for ten seconds in order to capture any stray pulses following the 5-second cycle.

### 3.3 TASER INTERNATIONAL X26 TEST LIMITS

TI specifies four test parameters for the Taser X26 – Pulse Duration, Main Phase Net Charge, Main Phase Peak Current and Pulse Rate. TI confirmed that Main Phase Peak Current is a valid parameter, equivalent to the Main Phase Peak Voltage divided by the load resistance, 600 ohms.

Parameter	Units	Minimum Value	Maximum Value
Pulse Duration	microseconds	105	155
Main Phase Net Charge	microcoulombs	80	125
Main Phase Peak Current	amps	2.3	4.2
Main Phase Peak Voltage	volts	1400	2520
Pulse Rate	pulses/second	16.5	20

Note: Refer to sample results page. Test limits are shaded in TI CEW Operating Parameters and in Supplemental Test Parameters.

### 3.4 TASER INTERNATIONAL X26 ELECTRICAL CHARACTERISTICS

TI provides values for certain electrical characteristics in order to inform users and the public on the characteristics of the device. These parameters are not part of factory specifications, nor are the devices tested for such parameters at the factory. The limits given here are approximate, and are intended as a general guide for the expected range of values.

Parameter	Units	Minimum Value	Maximum Value
Full Pulse Energy	millijoules	95	125
Charge/Second	milliamps	1.5	2.4
Energy/Second	watts	1.8	2.3

Note: Refer to sample results page. Electrical characteristics are shaded in Supplemental Test Parameters.



**3.5 SAMPLE RESULTS PAGE**

CEW Details

Model Number	-	X26
Serial Number	-	Xxx-xxxxxx
Battery Status	percent	XX
CEW Temperature	degrees Celsius	XX
Software Revision	-	XX
Load Resistance	ohms	XXX.xx
Comments:	-	

Overall CEW Status:
<b>In Tolerance</b>

TI CEW Operating Parameters

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	XXX.x	XXX	XXX
Main Phase Net Charge	microcoulombs	In Tolerance	XXX.x	XX	XXX
Main Phase Peak Current	amps	In Tolerance	X.xx	X.x	X.x
Main Phase Peak Voltage	volts	In Tolerance	XXXX	XXXX	XXXX
Pulse Rate	pulses/second	In Tolerance	XX.x	XX	XX

Supplemental Test Parameters

	Units	Average of XX Pulses	Standard Deviation of XX Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	XXX.x	XXX.x	XXX.x	XXX.x	XXX.x	XXX.x	XXX.x
Arc Phase Net Charge	microcoulombs	X.x	X.x	X.x	X.x	X.x	X.x	X.x
Arc Phase Peak Current	amps	X.xx	X.xx	X.xx	X.xx	X.xx	X.xx	X.xx
Main Phase Net Charge	microcoulombs	XXX.x	XXX.x	XXX.x	XXX.x	XXX.x	XXX.x	XXX.x
Main Phase Total Charge	microcoulombs	XXX.x	XXX.x	XXX.x	XXX.x	XXX.x	XXX.x	XXX.x
Main Phase Peak Current	amps	X.xx	X.xx	X.xx	X.xx	X.xx	X.xx	X.xx
Main Phase Peak Voltage	volts	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Main Phase Energy	millijoules	XXX.x	XXX.x	XXX.x	XXX.x	XXX.x	XXX.x	XXX.x
Full Pulse Net Charge	microcoulombs	XXX.x	XXX.x	XXX.x	XXX.x	XXX.x	XXX.x	XXX.x
Full Pulse Energy	millijoules	XXX.x	XXX.x	XXX.x	XXX.x	XXX.x	XXX.x	XXX.x
Pulse Rate	pulses/second	XX.x						
Charge/Second	milliamps	X.x						
Energy/Second	watts	X.x						
Duration of Cycle	seconds	X.xxxx						
Total Number of Pulses	-	XX						

## 4 EXECUTIVE TEST RESULT SUMMARY

A total of 82 CEWs have been evaluated in this report. Of the 82 CEWs evaluated, 8 were found to be out of tolerance. Of the 82 CEWs evaluated, 2 were found to exhibit unusual behaviour during the spark test. Please refer to the Executive Test Result Summary tables below.

### Executive Test Result Summary - Abbotsford (February 9-10, 2009)

Sample Number	CEW Serial Number	Overall CEW Status
1	X00-049593	In Tolerance
2	X00-049594	In Tolerance
3	X00-125696	In Tolerance
4	X00-167816	In Tolerance

### Executive Test Result Summary - BC Corrections (February 9-10, 2009)

Sample Number	CEW Serial Number	Overall CEW Status
1	X00-030023	In Tolerance
2	X00-030024	In Tolerance
3	X00-030042	In Tolerance
4	X00-030047	In Tolerance
5	X00-030075	In Tolerance
6	X00-030088	In Tolerance
7	X00-030207	In Tolerance
8	X00-030239	In Tolerance
9	X00-030635	In Tolerance
10	X00-030651	In Tolerance
11	X00-030777	In Tolerance
12	X00-030778	In Tolerance
13	X00-033440	In Tolerance
14	X00-033442	In Tolerance
15	X00-033543	In Tolerance
16	X00-033548	In Tolerance
17	X00-033837	In Tolerance
18	X00-033842	In Tolerance
19	X00-100676	Below Tolerance
20	X00-359278	In Tolerance
21	X00-392690	In Tolerance
22	X00-392691	In Tolerance

**Executive Test Result Summary - Central Saanich (February 9-10, 2009)**

Sample Number	CEW Serial Number	Overall CEW Status
1	X00-097965	In Tolerance
2	X00-145582	In Tolerance

**Executive Test Result Summary - Delta (February 9-10, 2009)**

Sample Number	CEW Serial Number	Overall CEW Status
1	X00-098483	In Tolerance
2	X00-130655	In Tolerance
3	X00-163823	In Tolerance
4	X00-169621	In Tolerance
5	X00-169700	In Tolerance
6	X00-169709	In Tolerance

**Executive Test Result Summary - Oak Bay (February 9-10, 2009)**

Sample Number	CEW Serial Number	Overall CEW Status
1	X00-157943	In Tolerance

**Executive Test Result Summary - Port Moody (February 9-10, 2009)**

Sample Number	CEW Serial Number	Overall CEW Status
1	X00-125560	In Tolerance
2	X00-126203	In Tolerance
3	X00-182580	Below Tolerance

**Executive Test Result Summary - Saanich (February 9-10, 2009)**

Sample Number	CEW Serial Number	Overall CEW Status
1	X00-129747	In Tolerance
2	X00-144353	In Tolerance
3	X00-167774	Above / Below Tolerance
4	X00-190898	In Tolerance
5	X00-190900	In Tolerance
6	X00-190958	In Tolerance

**Executive Test Result Summary - Vancouver (February 9-10, 2009)**

Sample Number	CEW Serial Number	Overall CEW Status
1	X00-098270	In Tolerance
2	X00-106738	In Tolerance
3	X00-122151	In Tolerance
4	X00-125024	In Tolerance
5	X00-125698	Below Tolerance
6	X00-125700	In Tolerance
7	X00-125815	In Tolerance
8	X00-125845	In Tolerance
9	X00-125893	In Tolerance
10	X00-125945	In Tolerance
11	X00-126004	In Tolerance
12	X00-126027	In Tolerance
13	X00-126209	In Tolerance
14	X00-131043	In Tolerance
15	X00-144140	In Tolerance
16	X00-158089	In Tolerance
17	X00-158121	In Tolerance
18	X00-158127	In Tolerance
19	X00-158128	In Tolerance
20	X00-158129	In Tolerance
21	X00-158136	In Tolerance
22	X00-161631	Below Tolerance
23	X00-165291	In Tolerance

**Executive Test Result Summary - Victoria (February 9-10, 2009)**

Sample Number	CEW Serial Number	Overall CEW Status
1	X00-026114	In Tolerance
2	X00-050447	In Tolerance
3	X00-050711	In Tolerance
4	X00-050917	In Tolerance
5	X00-051035	In Tolerance
6	X00-100542	In Tolerance
7	X00-130518	In Tolerance

**Executive Test Result Summary - Westminster (February 9-10, 2009)**

Sample Number	CEW Serial Number	Overall CEW Status
1	X00-003947	In Tolerance
2	X00-047002	In Tolerance
3	X00-118934	In Tolerance
4	X00-168793	In Tolerance
5	X00-168973	In Tolerance
6	X00-115817	Below Tolerance

**Executive Test Result Summary for Abnormal CEWs - BC Corrections (February 10, 2009)**

Sample Number	CEW Serial Number	Overall CEW Status
1	X00-033602	Below Tolerance
2	X00-033616	Below Tolerance

## 5 TEST RESULTS

### 5.1 TEST RESULTS - ABBOTSFORD

#### CEW Details

Model Number	-	X26
Serial Number	-	X00-049593
Battery Status	percent	92
CEW Temperature	degrees Celsius	23
Software Revision	-	21
Load Resistance	ohms	594.66
Comments:	-	Abbotsford

Overall CEW Status:
<b>In Tolerance</b>

#### TI CEW Operating Parameters

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	128.2	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	100.8	80	125
Main Phase Peak Current	amps	In Tolerance	3.08	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1830	1400	2520
Pulse Rate	pulses/second	In Tolerance	18.6	16.5	20.0

#### Supplemental Test Parameters

	Units	Average of 92 Pulses	Standard Deviation of 92 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	128.7	4.6	122.2	128.2	135.2	136.6	116.3
Arc Phase Net Charge	microcoulombs	7.7	0.3	7.5	8.2	8.2	8.3	7.4
Arc Phase Peak Current	amps	3.05	0.11	2.94	3.23	3.26	3.28	2.91
Main Phase Net Charge	microcoulombs	95.6	4.1	90.2	100.8	102.8	105.0	86.4
Main Phase Total Charge	microcoulombs	98.2	4.2	92.7	103.5	105.5	107.6	88.9
Main Phase Peak Current	amps	2.91	0.10	2.81	3.08	3.10	3.12	2.77
Main Phase Peak Voltage	volts	1729	58	1672	1830	1845	1857	1650
Main Phase Energy	millijoules	73.3	5.5	67.5	82.6	84.7	86.4	64.8
Full Pulse Net Charge	microcoulombs	87.9	3.9	82.8	92.6	94.6	96.9	79.0
Full Pulse Energy	millijoules	84.3	6.2	77.8	94.9	97.1	99.0	74.9
Pulse Rate	pulses/second	18.6						
Charge/Second	milliamps	1.8						
Energy/Second	watts	1.6						
Duration of Cycle	seconds	4.9586						
Total Number of Pulses	-	92						

**CEW Details**

Model Number	-	X26
Serial Number	-	X00-049594
Battery Status	percent	97
CEW Temperature	degrees Celsius	22
Software Revision	-	21
Load Resistance	ohms	594.66
Comments:	-	Abbotsford

Overall CEW Status:
<b>In Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	127.8	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	93.4	80	125
Main Phase Peak Current	amps	In Tolerance	2.56	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1525	1400	2520
Pulse Rate	pulses/second	In Tolerance	18.6	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 92 Pulses	Standard Deviation of 92 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	127.7	5.6	121.7	127.8	137.5	138.6	118.8
Arc Phase Net Charge	microcoulombs	6.9	0.2	6.7	6.9	7.3	7.4	6.6
Arc Phase Peak Current	amps	2.76	0.08	2.69	2.74	2.95	2.99	2.65
Main Phase Net Charge	microcoulombs	94.4	4.5	90.3	93.4	104.9	107.3	87.8
Main Phase Total Charge	microcoulombs	96.1	4.6	91.9	95.0	106.6	109.0	89.4
Main Phase Peak Current	amps	2.58	0.06	2.53	2.56	2.74	2.78	2.48
Main Phase Peak Voltage	volts	1537	38	1506	1525	1629	1655	1476
Main Phase Energy	millijoules	68.5	4.8	64.6	67.0	79.9	83.7	62.2
Full Pulse Net Charge	microcoulombs	87.5	4.3	83.6	86.6	97.5	99.9	81.1
Full Pulse Energy	millijoules	77.5	5.3	73.1	75.9	90.1	94.1	70.8
Pulse Rate	pulses/second	18.6						
Charge/Second	milliamps	1.8						
Energy/Second	watts	1.4						
Duration of Cycle	seconds	4.9464						
Total Number of Pulses	-	92						

**CEW Details**

Model Number	-	X26
Serial Number	-	X00-125696
Battery Status	percent	EE
CEW Temperature	degrees Celsius	21
Software Revision	-	21
Load Resistance	ohms	594.66
Comments:	-	Abbotsford

Overall CEW Status:
<b>In Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	129.0	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	104.7	80	125
Main Phase Peak Current	amps	In Tolerance	3.04	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1805	1400	2520
Pulse Rate	pulses/second	In Tolerance	18.5	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 91 Pulses	Standard Deviation of 91 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	127.3	2.6	124.9	129.0	132.1	132.5	121.8
Arc Phase Net Charge	microcoulombs	7.9	0.2	7.7	8.1	8.3	8.4	7.6
Arc Phase Peak Current	amps	3.03	0.08	2.94	3.12	3.18	3.23	2.89
Main Phase Net Charge	microcoulombs	100.7	3.8	96.0	104.7	107.7	109.6	93.3
Main Phase Total Charge	microcoulombs	103.7	3.9	98.9	107.7	110.8	112.8	96.1
Main Phase Peak Current	amps	2.94	0.08	2.85	3.04	3.09	3.14	2.81
Main Phase Peak Voltage	volts	1750	47	1695	1805	1835	1869	1668
Main Phase Energy	millijoules	76.9	4.9	70.9	82.3	85.8	88.8	68.1
Full Pulse Net Charge	microcoulombs	92.8	3.7	88.3	96.6	99.4	101.3	85.6
Full Pulse Energy	millijoules	88.1	5.4	81.4	94.2	98.0	101.3	78.4
Pulse Rate	pulses/second	18.5						
Charge/Second	milliamps	1.9						
Energy/Second	watts	1.6						
Duration of Cycle	seconds	4.9170						
Total Number of Pulses	-	91						



**CEW Details**

Model Number	-	X26
Serial Number	-	X00-167816
Battery Status	percent	97
CEW Temperature	degrees Celsius	21
Software Revision	-	21
Load Resistance	ohms	594.66
Comments:	-	Abbotsford

Overall CEW Status:
<b>In Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	134.0	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	114.0	80	125
Main Phase Peak Current	amps	In Tolerance	3.19	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1895	1400	2520
Pulse Rate	pulses/second	In Tolerance	18.6	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 92 Pulses	Standard Deviation of 92 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	132.4	1.9	132.1	134.0	135.5	137.1	128.3
Arc Phase Net Charge	microcoulombs	8.3	0.2	8.2	8.6	8.6	8.7	8.0
Arc Phase Peak Current	amps	3.17	0.08	3.13	3.30	3.31	3.34	3.05
Main Phase Net Charge	microcoulombs	109.0	3.4	107.3	114.0	115.1	116.9	101.7
Main Phase Total Charge	microcoulombs	112.1	3.5	110.4	117.2	118.3	120.1	104.8
Main Phase Peak Current	amps	3.07	0.08	3.03	3.19	3.20	3.23	2.94
Main Phase Peak Voltage	volts	1824	45	1801	1895	1905	1923	1748
Main Phase Energy	millijoules	87.4	4.9	84.9	95.3	96.6	99.2	78.3
Full Pulse Net Charge	microcoulombs	100.7	3.2	99.2	105.4	106.5	108.3	93.7
Full Pulse Energy	millijoules	99.7	5.4	96.8	108.5	109.8	112.5	89.8
Pulse Rate	pulses/second	18.6						
Charge/Second	milliamps	2.0						
Energy/Second	watts	1.9						
Duration of Cycle	seconds	4.9554						
Total Number of Pulses	-	92						

**5.2 TEST RESULTS - BC CORRECTIONS**

CEW Details

Model Number	-	X26
Serial Number	-	X00-030023
Battery Status	percent	99
CEW Temperature	degrees Celsius	19
Software Revision	-	15
Load Resistance	ohms	594.66
Comments:	-	BC Corrections

Overall CEW Status:
<b>In Tolerance</b>

TI CEW Operating Parameters

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	128.8	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	102.4	80	125
Main Phase Peak Current	amps	In Tolerance	3.11	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1849	1400	2520
Pulse Rate	pulses/second	In Tolerance	18.6	16.5	20.0

Supplemental Test Parameters

	Units	Average of 91 Pulses	Standard Deviation of 91 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	128.7	2.7	128.7	128.8	133.6	134.9	122.7
Arc Phase Net Charge	microcoulombs	7.9	0.2	7.9	8.2	8.3	8.7	7.6
Arc Phase Peak Current	amps	3.17	0.07	3.16	3.26	3.32	3.47	3.03
Main Phase Net Charge	microcoulombs	99.8	2.7	99.9	102.4	105.6	111.0	92.8
Main Phase Total Charge	microcoulombs	102.3	2.7	102.3	104.9	108.2	113.6	95.2
Main Phase Peak Current	amps	3.02	0.07	3.01	3.11	3.16	3.29	2.89
Main Phase Peak Voltage	volts	1798	39	1792	1849	1881	1959	1721
Main Phase Energy	millijoules	80.5	3.7	80.3	85.1	88.9	97.1	72.3
Full Pulse Net Charge	microcoulombs	91.9	2.6	92.1	94.2	97.4	102.3	85.2
Full Pulse Energy	millijoules	92.3	4.2	92.0	97.5	101.7	111.2	83.1
Pulse Rate	pulses/second	18.6						
Charge/Second	milliamps	1.9						
Energy/Second	watts	1.7						
Duration of Cycle	seconds	4.9021						
Total Number of Pulses	-	91						

**CEW Details**

Model Number	-	X26
Serial Number	-	X00-030024
Battery Status	percent	52
CEW Temperature	degrees Celsius	22
Software Revision	-	20
Load Resistance	ohms	594.66
Comments:	-	BC Corrections

Overall CEW Status:
<b>In Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	136.0	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	102.4	80	125
Main Phase Peak Current	amps	In Tolerance	2.98	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1772	1400	2520
Pulse Rate	pulses/second	In Tolerance	18.6	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 92 Pulses	Standard Deviation of 92 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	135.3	2.4	133.2	136.0	138.8	140.3	128.1
Arc Phase Net Charge	microcoulombs	8.0	0.1	8.0	8.0	8.2	8.3	7.8
Arc Phase Peak Current	amps	3.07	0.04	3.07	3.04	3.15	3.18	2.98
Main Phase Net Charge	microcoulombs	103.3	2.1	101.3	102.4	107.2	108.9	97.8
Main Phase Total Charge	microcoulombs	105.6	2.1	103.7	104.8	109.5	111.2	100.2
Main Phase Peak Current	amps	3.01	0.04	2.98	2.98	3.10	3.12	2.94
Main Phase Peak Voltage	volts	1788	23	1775	1772	1842	1857	1746
Main Phase Energy	millijoules	81.6	2.4	80.0	80.1	86.8	89.3	77.0
Full Pulse Net Charge	microcoulombs	95.2	2.1	93.3	94.5	99.0	100.7	89.8
Full Pulse Energy	millijoules	93.2	2.6	91.5	91.4	99.0	101.4	88.4
Pulse Rate	pulses/second	18.6						
Charge/Second	milliamps	1.9						
Energy/Second	watts	1.7						
Duration of Cycle	seconds	4.9490						
Total Number of Pulses	-	92						

**CEW Details**

Model Number	-	X26
Serial Number	-	X00-030042
Battery Status	percent	28
CEW Temperature	degrees Celsius	19
Software Revision	-	15
Load Resistance	ohms	594.66
Comments:	-	BC Corrections

Overall CEW Status:
<b>In Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	126.9	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	100.2	80	125
Main Phase Peak Current	amps	In Tolerance	3.00	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1787	1400	2520
Pulse Rate	pulses/second	In Tolerance	18.6	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 92 Pulses	Standard Deviation of 92 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	126.4	2.9	125.4	126.9	132.8	134.0	122.2
Arc Phase Net Charge	microcoulombs	8.0	0.1	7.9	7.9	8.3	8.5	7.6
Arc Phase Peak Current	amps	3.07	0.05	3.03	3.05	3.17	3.25	2.92
Main Phase Net Charge	microcoulombs	100.4	1.8	99.1	100.2	104.0	105.0	96.6
Main Phase Total Charge	microcoulombs	103.0	1.8	101.6	102.6	106.6	107.6	99.1
Main Phase Peak Current	amps	3.02	0.04	2.98	3.00	3.11	3.17	2.93
Main Phase Peak Voltage	volts	1795	26	1769	1787	1850	1884	1744
Main Phase Energy	millijoules	82.2	2.4	79.9	81.5	87.6	90.3	77.8
Full Pulse Net Charge	microcoulombs	92.4	1.8	91.2	92.2	95.9	96.9	88.7
Full Pulse Energy	millijoules	93.7	2.7	91.1	92.9	99.7	102.9	89.1
Pulse Rate	pulses/second	18.6						
Charge/Second	milliamps	1.9						
Energy/Second	watts	1.7						
Duration of Cycle	seconds	4.9497						
Total Number of Pulses	-	92						

**CEW Details**

Model Number	-	X26
Serial Number	-	X00-030047
Battery Status	percent	75
CEW Temperature	degrees Celsius	22
Software Revision	-	20
Load Resistance	ohms	594.66
Comments:	-	BC Corrections

Overall CEW Status:
<b>In Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	122.8	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	92.6	80	125
Main Phase Peak Current	amps	In Tolerance	2.59	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1543	1400	2520
Pulse Rate	pulses/second	In Tolerance	18.6	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 92 Pulses	Standard Deviation of 92 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	124.2	4.5	126.9	122.8	132.5	134.9	116.8
Arc Phase Net Charge	microcoulombs	7.1	0.2	7.1	7.0	7.4	7.5	6.7
Arc Phase Peak Current	amps	2.65	0.05	2.68	2.62	2.74	2.79	2.55
Main Phase Net Charge	microcoulombs	93.5	3.2	95.9	92.6	99.2	101.2	87.5
Main Phase Total Charge	microcoulombs	94.9	3.2	97.2	94.0	100.5	102.6	88.8
Main Phase Peak Current	amps	2.62	0.05	2.66	2.59	2.72	2.74	2.52
Main Phase Peak Voltage	volts	1556	30	1581	1543	1615	1631	1496
Main Phase Energy	millijoules	69.1	3.4	71.6	67.9	75.6	77.2	62.3
Full Pulse Net Charge	microcoulombs	86.5	3.0	88.8	85.6	91.9	93.9	80.6
Full Pulse Energy	millijoules	77.9	3.7	80.6	76.5	85.0	86.5	70.6
Pulse Rate	pulses/second	18.6						
Charge/Second	milliamps	1.7						
Energy/Second	watts	1.5						
Duration of Cycle	seconds	4.9436						
Total Number of Pulses	-	92						

**CEW Details**

Model Number	-	X26
Serial Number	-	X00-030075
Battery Status	percent	45
CEW Temperature	degrees Celsius	21
Software Revision	-	15
Load Resistance	ohms	594.66
Comments:	-	BC Corrections

Overall CEW Status:
<b>In Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	132.8	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	107.9	80	125
Main Phase Peak Current	amps	In Tolerance	3.10	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1841	1400	2520
Pulse Rate	pulses/second	In Tolerance	18.6	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 92 Pulses	Standard Deviation of 92 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	133.6	2.0	135.2	132.8	137.5	138.3	129.6
Arc Phase Net Charge	microcoulombs	8.0	0.1	8.1	8.1	8.3	8.4	7.7
Arc Phase Peak Current	amps	3.22	0.04	3.23	3.23	3.31	3.34	3.12
Main Phase Net Charge	microcoulombs	108.0	2.0	109.1	107.9	112.0	114.2	104.0
Main Phase Total Charge	microcoulombs	110.4	2.0	111.5	110.3	114.5	116.8	106.4
Main Phase Peak Current	amps	3.09	0.05	3.10	3.10	3.19	3.21	3.00
Main Phase Peak Voltage	volts	1837	27	1846	1841	1894	1906	1783
Main Phase Energy	millijoules	91.6	2.9	92.8	91.8	97.9	99.6	86.5
Full Pulse Net Charge	microcoulombs	99.9	1.9	101.0	99.8	103.8	105.8	96.2
Full Pulse Energy	millijoules	103.6	3.2	105.0	104.0	110.6	112.6	98.0
Pulse Rate	pulses/second	18.6						
Charge/Second	milliamps	2.0						
Energy/Second	watts	1.9						
Duration of Cycle	seconds	4.9515						
Total Number of Pulses	-	92						

**CEW Details**

Model Number	-	X26
Serial Number	-	X00-030088
Battery Status	percent	90
CEW Temperature	degrees Celsius	19
Software Revision	-	15
Load Resistance	ohms	594.66
Comments:	-	BC Corrections

Overall CEW Status:
<b>In Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	128.2	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	98.1	80	125
Main Phase Peak Current	amps	In Tolerance	2.78	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1653	1400	2520
Pulse Rate	pulses/second	In Tolerance	18.6	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 92 Pulses	Standard Deviation of 92 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	130.9	4.3	131.9	128.2	137.1	139.6	118.5
Arc Phase Net Charge	microcoulombs	7.5	0.2	7.6	7.3	7.8	7.9	7.2
Arc Phase Peak Current	amps	2.98	0.07	3.03	2.91	3.12	3.16	2.87
Main Phase Net Charge	microcoulombs	100.8	3.1	103.3	98.1	106.4	107.2	94.3
Main Phase Total Charge	microcoulombs	102.8	3.1	105.4	100.1	108.5	109.2	96.2
Main Phase Peak Current	amps	2.84	0.06	2.89	2.78	2.97	3.00	2.73
Main Phase Peak Voltage	volts	1688	37	1719	1653	1765	1785	1626
Main Phase Energy	millijoules	77.5	3.9	80.6	74.0	85.3	87.7	70.6
Full Pulse Net Charge	microcoulombs	93.3	3.0	95.7	90.8	98.7	99.5	87.0
Full Pulse Energy	millijoules	87.9	4.3	91.4	83.9	96.7	99.4	80.4
Pulse Rate	pulses/second	18.6						
Charge/Second	milliamps	1.9						
Energy/Second	watts	1.6						
Duration of Cycle	seconds	4.9432						
Total Number of Pulses	-	92						

**CEW Details**

Model Number	-	X26
Serial Number	-	X00-030207
Battery Status	percent	86
CEW Temperature	degrees Celsius	22
Software Revision	-	21
Load Resistance	ohms	594.66
Comments:	-	BC Corrections

Overall CEW Status:
<b>In Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	133.4	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	112.1	80	125
Main Phase Peak Current	amps	In Tolerance	3.32	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1976	1400	2520
Pulse Rate	pulses/second	In Tolerance	18.1	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 89 Pulses	Standard Deviation of 89 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	133.3	3.3	135.5	133.4	137.8	138.8	125.1
Arc Phase Net Charge	microcoulombs	8.6	0.2	8.6	8.9	9.1	9.3	8.1
Arc Phase Peak Current	amps	3.35	0.10	3.34	3.49	3.55	3.63	3.16
Main Phase Net Charge	microcoulombs	108.3	3.4	109.3	112.1	114.7	116.5	101.1
Main Phase Total Charge	microcoulombs	111.2	3.4	112.1	115.1	117.7	119.6	103.9
Main Phase Peak Current	amps	3.20	0.09	3.19	3.32	3.39	3.45	3.03
Main Phase Peak Voltage	volts	1902	54	1894	1976	2013	2051	1804
Main Phase Energy	millijoules	92.3	5.7	92.0	100.0	104.0	108.0	83.3
Full Pulse Net Charge	microcoulombs	99.7	3.2	100.7	103.2	105.6	107.1	92.8
Full Pulse Energy	millijoules	105.7	6.4	105.3	114.5	119.0	123.8	95.3
Pulse Rate	pulses/second	18.1						
Charge/Second	milliamps	2.0						
Energy/Second	watts	1.9						
Duration of Cycle	seconds	4.9200						
Total Number of Pulses	-	89						



**CEW Details**

Model Number	-	X26
Serial Number	-	X00-030239
Battery Status	percent	92
CEW Temperature	degrees Celsius	23
Software Revision	-	20
Load Resistance	ohms	594.66
Comments:	-	BC Corrections

Overall CEW Status:
<b>In Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	133.6	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	104.6	80	125
Main Phase Peak Current	amps	In Tolerance	3.02	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1794	1400	2520
Pulse Rate	pulses/second	In Tolerance	18.6	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 92 Pulses	Standard Deviation of 92 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	132.0	3.3	133.2	133.6	136.3	137.3	120.6
Arc Phase Net Charge	microcoulombs	8.0	0.1	8.0	8.0	8.2	8.2	7.7
Arc Phase Peak Current	amps	3.14	0.04	3.15	3.16	3.20	3.22	3.00
Main Phase Net Charge	microcoulombs	103.4	2.4	104.2	104.6	107.0	107.7	93.8
Main Phase Total Charge	microcoulombs	105.7	2.4	106.4	106.8	109.2	109.9	96.0
Main Phase Peak Current	amps	3.00	0.04	3.01	3.02	3.05	3.09	2.85
Main Phase Peak Voltage	volts	1786	22	1791	1794	1816	1836	1696
Main Phase Energy	millijoules	82.6	2.4	83.2	83.7	86.4	87.9	72.8
Full Pulse Net Charge	microcoulombs	95.4	2.4	96.2	96.5	99.0	99.7	86.1
Full Pulse Energy	millijoules	94.3	2.6	95.0	95.5	98.3	100.1	83.7
Pulse Rate	pulses/second	18.6						
Charge/Second	milliamps	1.9						
Energy/Second	watts	1.8						
Duration of Cycle	seconds	4.9472						
Total Number of Pulses	-	92						

**CEW Details**

Model Number	-	X26
Serial Number	-	X00-030635
Battery Status	percent	64
CEW Temperature	degrees Celsius	21
Software Revision	-	15
Load Resistance	ohms	594.66
Comments:	-	BC Corrections

Overall CEW Status:
<b>In Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	131.9	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	101.9	80	125
Main Phase Peak Current	amps	In Tolerance	3.04	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1807	1400	2520
Pulse Rate	pulses/second	In Tolerance	18.6	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 92 Pulses	Standard Deviation of 92 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	132.6	2.3	133.1	131.9	136.8	138.0	127.1
Arc Phase Net Charge	microcoulombs	7.9	0.1	7.9	7.8	8.1	8.2	7.6
Arc Phase Peak Current	amps	3.14	0.05	3.14	3.13	3.23	3.28	3.02
Main Phase Net Charge	microcoulombs	102.2	2.4	102.5	101.9	106.5	107.3	98.0
Main Phase Total Charge	microcoulombs	105.2	2.4	105.5	104.9	109.5	110.4	100.9
Main Phase Peak Current	amps	3.04	0.05	3.04	3.04	3.13	3.16	2.95
Main Phase Peak Voltage	volts	1806	28	1809	1807	1859	1880	1752
Main Phase Energy	millijoules	81.5	3.0	81.8	81.5	87.1	88.5	76.3
Full Pulse Net Charge	microcoulombs	94.3	2.3	94.6	94.1	98.4	99.3	90.3
Full Pulse Energy	millijoules	93.1	3.3	93.4	93.0	99.2	101.2	87.1
Pulse Rate	pulses/second	18.6						
Charge/Second	milliamps	1.9						
Energy/Second	watts	1.7						
Duration of Cycle	seconds	4.9497						
Total Number of Pulses	-	92						

**CEW Details**

Model Number	-	X26
Serial Number	-	X00-030651
Battery Status	percent	68
CEW Temperature	degrees Celsius	22
Software Revision	-	18
Load Resistance	ohms	594.66
Comments:	-	BC Corrections

Overall CEW Status:
<b>In Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	134.8	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	105.4	80	125
Main Phase Peak Current	amps	In Tolerance	2.98	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1770	1400	2520
Pulse Rate	pulses/second	In Tolerance	18.6	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 92 Pulses	Standard Deviation of 92 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	135.4	3.3	138.1	134.8	140.1	141.1	128.0
Arc Phase Net Charge	microcoulombs	7.7	0.1	7.7	7.8	8.0	8.1	7.4
Arc Phase Peak Current	amps	3.08	0.06	3.06	3.12	3.19	3.21	2.93
Main Phase Net Charge	microcoulombs	104.1	2.5	104.3	105.4	108.6	110.2	98.2
Main Phase Total Charge	microcoulombs	106.4	2.5	106.7	107.7	111.0	112.4	100.5
Main Phase Peak Current	amps	2.93	0.06	2.89	2.98	3.04	3.08	2.84
Main Phase Peak Voltage	volts	1744	34	1721	1770	1808	1831	1690
Main Phase Energy	millijoules	81.5	3.3	80.0	83.9	87.8	89.3	75.8
Full Pulse Net Charge	microcoulombs	96.4	2.4	96.6	97.6	100.8	102.3	90.6
Full Pulse Energy	millijoules	92.7	3.7	91.0	95.2	99.6	101.0	86.5
Pulse Rate	pulses/second	18.6						
Charge/Second	milliamps	1.9						
Energy/Second	watts	1.7						
Duration of Cycle	seconds	4.9495						
Total Number of Pulses	-	92						

**CEW Details**

Model Number	-	X26
Serial Number	-	X00-030777
Battery Status	percent	91
CEW Temperature	degrees Celsius	20
Software Revision	-	20
Load Resistance	ohms	594.66
Comments:	-	BC Corrections

Overall CEW Status:
<b>In Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	132.9	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	98.6	80	125
Main Phase Peak Current	amps	In Tolerance	2.78	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1656	1400	2520
Pulse Rate	pulses/second	In Tolerance	18.6	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 92 Pulses	Standard Deviation of 92 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	135.0	3.6	135.5	132.9	141.3	143.3	127.3
Arc Phase Net Charge	microcoulombs	7.5	0.2	7.5	7.4	7.9	8.0	7.2
Arc Phase Peak Current	amps	2.97	0.07	2.98	2.94	3.12	3.18	2.84
Main Phase Net Charge	microcoulombs	100.0	3.0	100.2	98.6	106.9	109.3	95.0
Main Phase Total Charge	microcoulombs	101.9	3.1	102.1	100.5	108.8	111.3	96.8
Main Phase Peak Current	amps	2.81	0.06	2.81	2.78	2.95	2.99	2.70
Main Phase Peak Voltage	volts	1670	35	1672	1656	1753	1775	1607
Main Phase Energy	millijoules	75.4	3.7	75.6	73.9	84.1	87.1	69.3
Full Pulse Net Charge	microcoulombs	92.5	2.9	92.7	91.2	99.0	101.4	87.6
Full Pulse Energy	millijoules	85.9	4.1	86.1	84.2	95.5	98.9	78.9
Pulse Rate	pulses/second	18.6						
Charge/Second	milliamps	1.9						
Energy/Second	watts	1.6						
Duration of Cycle	seconds	4.9497						
Total Number of Pulses	-	92						

**CEW Details**

Model Number	-	X26
Serial Number	-	X00-030778
Battery Status	percent	98
CEW Temperature	degrees Celsius	19
Software Revision	-	15
Load Resistance	ohms	594.66
Comments:	-	BC Corrections

Overall CEW Status:
<b>In Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	137.2	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	110.2	80	125
Main Phase Peak Current	amps	In Tolerance	3.17	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1883	1400	2520
Pulse Rate	pulses/second	In Tolerance	17.8	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 87 Pulses	Standard Deviation of 87 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	136.8	2.3	139.0	137.2	141.1	142.2	130.3
Arc Phase Net Charge	microcoulombs	8.3	0.2	8.6	8.4	8.6	8.7	7.8
Arc Phase Peak Current	amps	3.23	0.09	3.35	3.27	3.36	3.38	3.05
Main Phase Net Charge	microcoulombs	109.2	3.7	114.2	110.2	115.3	116.3	101.6
Main Phase Total Charge	microcoulombs	111.7	3.7	116.8	112.8	117.9	118.8	104.2
Main Phase Peak Current	amps	3.14	0.08	3.25	3.17	3.27	3.28	2.97
Main Phase Peak Voltage	volts	1866	49	1931	1883	1942	1948	1769
Main Phase Energy	millijoules	92.1	5.6	99.8	94.0	100.9	101.6	81.9
Full Pulse Net Charge	microcoulombs	100.9	3.5	105.6	101.8	106.7	107.7	93.6
Full Pulse Energy	millijoules	104.7	6.2	113.3	106.9	114.4	115.0	93.6
Pulse Rate	pulses/second	17.8						
Charge/Second	milliamps	1.9						
Energy/Second	watts	1.9						
Duration of Cycle	seconds	4.8886						
Total Number of Pulses	-	87						

**CEW Details**

Model Number	-	X26
Serial Number	-	X00-033440
Battery Status	percent	45
CEW Temperature	degrees Celsius	19
Software Revision	-	15
Load Resistance	ohms	594.66
Comments:	-	BC Corrections

Overall CEW Status:
<b>In Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	140.5	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	107.5	80	125
Main Phase Peak Current	amps	In Tolerance	2.92	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1739	1400	2520
Pulse Rate	pulses/second	In Tolerance	18.6	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 92 Pulses	Standard Deviation of 92 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	139.2	2.7	138.1	140.5	143.9	144.6	132.4
Arc Phase Net Charge	microcoulombs	7.8	0.1	7.7	7.9	7.9	8.0	7.6
Arc Phase Peak Current	amps	3.06	0.03	3.06	3.10	3.13	3.15	2.99
Main Phase Net Charge	microcoulombs	105.8	2.4	105.2	107.5	110.1	111.7	101.7
Main Phase Total Charge	microcoulombs	107.9	2.4	107.3	109.7	112.2	113.9	103.8
Main Phase Peak Current	amps	2.88	0.03	2.89	2.92	2.96	2.98	2.82
Main Phase Peak Voltage	volts	1713	20	1716	1739	1760	1769	1678
Main Phase Energy	millijoules	82.4	2.3	82.4	84.9	87.3	88.9	78.6
Full Pulse Net Charge	microcoulombs	98.0	2.3	97.4	99.7	102.3	103.7	94.0
Full Pulse Energy	millijoules	93.5	2.5	93.5	96.3	98.9	100.7	89.4
Pulse Rate	pulses/second	18.6						
Charge/Second	milliamps	2.0						
Energy/Second	watts	1.7						
Duration of Cycle	seconds	4.9472						
Total Number of Pulses	-	92						

**CEW Details**

Model Number	-	X26
Serial Number	-	X00-033442
Battery Status	percent	84
CEW Temperature	degrees Celsius	20
Software Revision	-	15
Load Resistance	ohms	594.66
Comments:	-	BC Corrections

Overall CEW Status:
<b>In Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	134.0	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	107.6	80	125
Main Phase Peak Current	amps	In Tolerance	3.20	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1905	1400	2520
Pulse Rate	pulses/second	In Tolerance	17.9	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 88 Pulses	Standard Deviation of 88 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	136.0	2.9	135.2	134.0	141.6	145.5	130.1
Arc Phase Net Charge	microcoulombs	8.8	0.2	8.9	8.6	9.1	9.2	8.4
Arc Phase Peak Current	amps	3.45	0.08	3.50	3.38	3.60	3.63	3.30
Main Phase Net Charge	microcoulombs	110.8	3.2	112.3	107.6	117.0	120.8	103.4
Main Phase Total Charge	microcoulombs	113.6	3.2	115.2	110.4	120.0	123.7	106.1
Main Phase Peak Current	amps	3.27	0.07	3.31	3.20	3.40	3.46	3.12
Main Phase Peak Voltage	volts	1943	42	1970	1905	2021	2058	1855
Main Phase Energy	millijoules	96.2	4.7	99.1	91.7	105.0	110.2	85.8
Full Pulse Net Charge	microcoulombs	102.0	3.0	103.4	98.9	107.9	111.6	94.9
Full Pulse Energy	millijoules	110.4	5.3	113.7	105.3	120.2	125.7	98.8
Pulse Rate	pulses/second	17.9						
Charge/Second	milliamps	2.0						
Energy/Second	watts	2.0						
Duration of Cycle	seconds	4.9291						
Total Number of Pulses	-	88						

**CEW Details**

Model Number	-	X26
Serial Number	-	X00-033543
Battery Status	percent	60
CEW Temperature	degrees Celsius	23
Software Revision	-	20
Load Resistance	ohms	594.66
Comments:	-	BC Corrections

Overall CEW Status:
<b>In Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	128.9	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	97.9	80	125
Main Phase Peak Current	amps	In Tolerance	2.86	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1703	1400	2520
Pulse Rate	pulses/second	In Tolerance	18.6	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 92 Pulses	Standard Deviation of 92 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	132.2	3.7	132.8	128.9	137.7	138.7	125.7
Arc Phase Net Charge	microcoulombs	7.8	0.1	7.9	7.7	8.0	8.2	7.5
Arc Phase Peak Current	amps	3.01	0.06	3.07	2.98	3.11	3.20	2.92
Main Phase Net Charge	microcoulombs	100.4	2.8	101.4	97.9	105.5	107.8	94.7
Main Phase Total Charge	microcoulombs	102.9	2.8	103.9	100.3	108.0	110.3	97.2
Main Phase Peak Current	amps	2.88	0.05	2.93	2.86	2.98	3.08	2.79
Main Phase Peak Voltage	volts	1715	32	1740	1703	1774	1831	1660
Main Phase Energy	millijoules	77.5	3.3	79.7	75.5	84.0	89.3	71.4
Full Pulse Net Charge	microcoulombs	92.6	2.7	93.5	90.2	97.5	99.6	87.1
Full Pulse Energy	millijoules	88.5	3.7	91.1	86.2	95.6	101.5	81.9
Pulse Rate	pulses/second	18.6						
Charge/Second	milliamps	1.9						
Energy/Second	watts	1.6						
Duration of Cycle	seconds	4.9449						
Total Number of Pulses	-	92						



**CEW Details**

Model Number	-	X26
Serial Number	-	X00-033548
Battery Status	percent	88
CEW Temperature	degrees Celsius	22
Software Revision	-	21
Load Resistance	ohms	594.66
Comments:	-	BC Corrections

Overall CEW Status:
<b>In Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	133.0	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	103.2	80	125
Main Phase Peak Current	amps	In Tolerance	2.97	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1764	1400	2520
Pulse Rate	pulses/second	In Tolerance	18.6	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 92 Pulses	Standard Deviation of 92 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	137.2	3.5	137.4	133.0	142.2	143.9	128.2
Arc Phase Net Charge	microcoulombs	7.9	0.1	7.9	8.0	8.2	8.4	7.6
Arc Phase Peak Current	amps	3.04	0.05	3.04	3.09	3.15	3.20	2.95
Main Phase Net Charge	microcoulombs	103.6	2.4	103.1	103.2	107.6	108.6	97.1
Main Phase Total Charge	microcoulombs	105.9	2.4	105.5	105.6	110.0	111.0	99.4
Main Phase Peak Current	amps	2.92	0.04	2.90	2.97	3.00	3.02	2.81
Main Phase Peak Voltage	volts	1736	27	1727	1764	1786	1796	1673
Main Phase Energy	millijoules	80.0	2.7	79.2	82.0	84.8	86.2	73.6
Full Pulse Net Charge	microcoulombs	95.7	2.3	95.2	95.2	99.6	100.6	89.4
Full Pulse Energy	millijoules	91.3	2.9	90.4	93.6	96.8	98.5	84.2
Pulse Rate	pulses/second	18.6						
Charge/Second	milliamps	1.9						
Energy/Second	watts	1.7						
Duration of Cycle	seconds	4.9507						
Total Number of Pulses	-	92						

**CEW Details**

Model Number	-	X26
Serial Number	-	X00-033837
Battery Status	percent	34
CEW Temperature	degrees Celsius	20
Software Revision	-	20
Load Resistance	ohms	594.66
Comments:	-	BC Corrections

Overall CEW Status:
<b>In Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	128.9	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	102.6	80	125
Main Phase Peak Current	amps	In Tolerance	3.05	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1814	1400	2520
Pulse Rate	pulses/second	In Tolerance	18.5	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 91 Pulses	Standard Deviation of 91 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	130.3	3.3	128.4	128.9	136.4	139.0	123.5
Arc Phase Net Charge	microcoulombs	8.2	0.1	8.2	8.2	8.4	8.4	8.0
Arc Phase Peak Current	amps	3.23	0.04	3.23	3.21	3.30	3.33	3.12
Main Phase Net Charge	microcoulombs	103.8	2.3	103.4	102.6	108.2	110.3	99.0
Main Phase Total Charge	microcoulombs	106.4	2.3	106.0	105.2	110.8	112.9	101.5
Main Phase Peak Current	amps	3.07	0.04	3.07	3.05	3.14	3.18	2.99
Main Phase Peak Voltage	volts	1827	22	1826	1814	1869	1890	1778
Main Phase Energy	millijoules	85.4	2.5	85.3	83.9	90.2	93.5	80.1
Full Pulse Net Charge	microcoulombs	95.6	2.3	95.2	94.5	99.9	102.1	90.9
Full Pulse Energy	millijoules	97.7	2.8	97.7	96.1	103.0	106.6	91.9
Pulse Rate	pulses/second	18.5						
Charge/Second	milliamps	1.9						
Energy/Second	watts	1.8						
Duration of Cycle	seconds	4.9096						
Total Number of Pulses	-	91						

**CEW Details**

Model Number	-	X26
Serial Number	-	X00-033842
Battery Status	percent	51
CEW Temperature	degrees Celsius	15
Software Revision	-	18
Load Resistance	ohms	594.66
Comments:	-	BC Corrections

Overall CEW Status:
<b>In Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	128.7	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	97.2	80	125
Main Phase Peak Current	amps	In Tolerance	2.91	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1728	1400	2520
Pulse Rate	pulses/second	In Tolerance	18.0	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 89 Pulses	Standard Deviation of 89 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	129.6	5.5	131.4	128.7	137.4	138.1	116.7
Arc Phase Net Charge	microcoulombs	7.6	0.1	7.6	7.7	7.8	7.9	7.3
Arc Phase Peak Current	amps	2.99	0.05	2.97	3.03	3.07	3.09	2.89
Main Phase Net Charge	microcoulombs	96.4	2.7	96.2	97.2	101.4	102.5	89.4
Main Phase Total Charge	microcoulombs	99.0	2.7	98.9	99.9	104.0	105.1	92.0
Main Phase Peak Current	amps	2.86	0.04	2.86	2.91	2.94	2.96	2.73
Main Phase Peak Voltage	volts	1703	26	1702	1728	1746	1762	1626
Main Phase Energy	millijoules	73.0	2.6	72.6	75.0	77.5	78.0	65.7
Full Pulse Net Charge	microcoulombs	88.7	2.7	88.7	89.4	93.7	94.9	82.0
Full Pulse Energy	millijoules	83.7	2.8	83.1	86.0	88.5	88.9	75.7
Pulse Rate	pulses/second	18.0						
Charge/Second	milliamps	1.7						
Energy/Second	watts	1.5						
Duration of Cycle	seconds	4.9481						
Total Number of Pulses	-	89						

**CEW Details**

Model Number	-	X26
Serial Number	-	X00-100676
Battery Status	percent	44
CEW Temperature	degrees Celsius	23
Software Revision	-	20
Load Resistance	ohms	594.66
Comments:	-	BC Corrections

Overall CEW Status:
<b>Below Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	138.2	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	108.7	80	125
Main Phase Peak Current	amps	In Tolerance	3.18	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1891	1400	2520
Pulse Rate	pulses/second	Below Tolerance	16.4	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 81 Pulses	Standard Deviation of 81 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	139.1	2.1	138.3	138.2	142.7	143.8	134.4
Arc Phase Net Charge	microcoulombs	8.5	0.1	8.4	8.5	8.6	8.7	8.3
Arc Phase Peak Current	amps	3.33	0.03	3.29	3.31	3.38	3.38	3.24
Main Phase Net Charge	microcoulombs	108.7	2.2	106.5	108.7	112.0	114.3	103.7
Main Phase Total Charge	microcoulombs	111.5	2.2	109.2	111.5	114.8	117.1	106.5
Main Phase Peak Current	amps	3.19	0.03	3.16	3.18	3.24	3.26	3.14
Main Phase Peak Voltage	volts	1898	17	1878	1891	1930	1940	1867
Main Phase Energy	millijoules	89.2	2.2	86.6	88.8	92.9	95.3	85.0
Full Pulse Net Charge	microcoulombs	100.2	2.2	98.1	100.2	103.5	105.6	95.1
Full Pulse Energy	millijoules	102.4	2.3	99.5	101.8	106.4	108.9	97.8
Pulse Rate	pulses/second	16.4						
Charge/Second	milliamps	1.8						
Energy/Second	watts	1.7						
Duration of Cycle	seconds	4.9463						
Total Number of Pulses	-	81						

**CEW Details**

Model Number	-	X26
Serial Number	-	X00-359278
Battery Status	percent	90
CEW Temperature	degrees Celsius	23
Software Revision	-	20
Load Resistance	ohms	594.66
Comments:	-	BC Corrections

Overall CEW Status:
<b>In Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	131.4	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	111.5	80	125
Main Phase Peak Current	amps	In Tolerance	3.02	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1795	1400	2520
Pulse Rate	pulses/second	In Tolerance	17.3	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 85 Pulses	Standard Deviation of 85 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	131.6	3.9	136.8	131.4	138.0	140.9	120.2
Arc Phase Net Charge	microcoulombs	8.2	0.3	8.7	8.1	8.9	9.2	7.8
Arc Phase Peak Current	amps	3.29	0.12	3.51	3.25	3.56	3.70	3.15
Main Phase Net Charge	microcoulombs	113.1	5.2	122.0	111.5	123.5	128.4	102.4
Main Phase Total Charge	microcoulombs	115.1	5.2	124.1	113.4	125.6	130.6	104.2
Main Phase Peak Current	amps	3.05	0.11	3.24	3.02	3.29	3.41	2.92
Main Phase Peak Voltage	volts	1812	64	1929	1795	1958	2029	1734
Main Phase Energy	millijoules	93.2	7.4	106.6	91.0	109.7	118.0	82.2
Full Pulse Net Charge	microcoulombs	104.9	4.9	113.3	103.4	114.6	119.2	94.5
Full Pulse Energy	millijoules	106.0	8.3	121.0	103.4	124.5	133.9	93.9
Pulse Rate	pulses/second	17.3						
Charge/Second	milliamps	2.0						
Energy/Second	watts	1.8						
Duration of Cycle	seconds	4.9016						
Total Number of Pulses	-	85						

**CEW Details**

Model Number	-	X26
Serial Number	-	X00-392690
Battery Status	percent	73
CEW Temperature	degrees Celsius	23
Software Revision	-	21
Load Resistance	ohms	594.66
Comments:	-	BC Corrections

Overall CEW Status:
<b>In Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	137.6	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	113.6	80	125
Main Phase Peak Current	amps	In Tolerance	2.83	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1682	1400	2520
Pulse Rate	pulses/second	In Tolerance	18.6	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 92 Pulses	Standard Deviation of 92 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	136.5	3.3	137.6	137.6	142.2	143.6	126.2
Arc Phase Net Charge	microcoulombs	7.9	0.1	8.0	7.8	8.2	8.4	7.6
Arc Phase Peak Current	amps	3.01	0.06	3.04	2.99	3.13	3.22	2.90
Main Phase Net Charge	microcoulombs	114.3	3.3	116.3	113.6	121.3	125.3	106.9
Main Phase Total Charge	microcoulombs	116.0	3.3	118.1	115.4	123.1	127.1	108.7
Main Phase Peak Current	amps	2.86	0.05	2.89	2.83	2.98	3.06	2.75
Main Phase Peak Voltage	volts	1701	32	1719	1682	1775	1817	1636
Main Phase Energy	millijoules	90.6	4.1	92.9	89.0	99.9	105.7	83.1
Full Pulse Net Charge	microcoulombs	106.4	3.2	108.3	105.8	113.2	117.0	99.1
Full Pulse Energy	millijoules	101.8	4.4	104.4	100.1	112.0	118.2	93.8
Pulse Rate	pulses/second	18.6						
Charge/Second	milliamps	2.1						
Energy/Second	watts	1.9						
Duration of Cycle	seconds	4.9479						
Total Number of Pulses	-	92						

**CEW Details**

Model Number	-	X26
Serial Number	-	X00-392691
Battery Status	percent	74
CEW Temperature	degrees Celsius	24
Software Revision	-	21
Load Resistance	ohms	594.66
Comments:	-	BC Corrections

Overall CEW Status:
<b>In Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	136.7	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	117.1	80	125
Main Phase Peak Current	amps	In Tolerance	3.00	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1782	1400	2520
Pulse Rate	pulses/second	In Tolerance	18.6	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 92 Pulses	Standard Deviation of 92 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	137.5	3.3	136.1	136.7	143.1	144.9	128.3
Arc Phase Net Charge	microcoulombs	8.1	0.1	8.1	8.1	8.2	8.3	7.9
Arc Phase Peak Current	amps	3.06	0.03	3.06	3.07	3.11	3.12	3.00
Main Phase Net Charge	microcoulombs	116.5	2.6	115.8	117.1	120.6	121.6	110.3
Main Phase Total Charge	microcoulombs	118.5	2.6	117.7	119.0	122.5	123.4	112.2
Main Phase Peak Current	amps	2.99	0.02	2.98	3.00	3.03	3.04	2.93
Main Phase Peak Voltage	volts	1776	14	1773	1782	1802	1810	1743
Main Phase Energy	millijoules	95.7	2.2	95.1	96.6	99.9	100.7	91.9
Full Pulse Net Charge	microcoulombs	108.4	2.6	107.7	109.0	112.5	113.6	102.2
Full Pulse Energy	millijoules	107.4	2.2	106.7	108.4	111.7	112.7	103.5
Pulse Rate	pulses/second	18.6						
Charge/Second	milliamps	2.2						
Energy/Second	watts	2.0						
Duration of Cycle	seconds	4.9494						
Total Number of Pulses	-	92						

**5.3 TEST RESULTS - CENTRAL SAANICH**

CEW Details

Model Number	-	X26
Serial Number	-	X00-097965
Battery Status	percent	70
CEW Temperature	degrees Celsius	26
Software Revision	-	21
Load Resistance	ohms	594.66
Comments:	-	Central Saanich

Overall CEW Status:
<b>In Tolerance</b>

TI CEW Operating Parameters

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	134.2	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	96.6	80	125
Main Phase Peak Current	amps	In Tolerance	2.89	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1716	1400	2520
Pulse Rate	pulses/second	In Tolerance	18.5	16.5	20.0

Supplemental Test Parameters

	Units	Average of 92 Pulses	Standard Deviation of 92 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	132.9	2.7	133.3	134.2	137.9	140.0	125.6
Arc Phase Net Charge	microcoulombs	7.5	0.2	7.6	7.6	7.8	8.0	7.2
Arc Phase Peak Current	amps	2.84	0.06	2.86	2.86	2.96	3.05	2.73
Main Phase Net Charge	microcoulombs	95.6	2.7	96.6	96.6	100.8	103.3	90.0
Main Phase Total Charge	microcoulombs	98.0	2.8	99.0	99.0	103.3	105.7	92.3
Main Phase Peak Current	amps	2.88	0.06	2.90	2.89	2.99	3.06	2.78
Main Phase Peak Voltage	volts	1712	34	1726	1716	1780	1820	1655
Main Phase Energy	millijoules	71.8	3.2	73.0	72.6	78.3	81.7	65.9
Full Pulse Net Charge	microcoulombs	88.1	2.6	89.0	89.0	93.0	95.5	82.8
Full Pulse Energy	millijoules	81.8	3.6	83.2	82.7	89.0	93.2	75.1
Pulse Rate	pulses/second	18.5						
Charge/Second	milliamps	1.8						
Energy/Second	watts	1.5						
Duration of Cycle	seconds	4.9603						
Total Number of Pulses	-	92						



**CEW Details**

Model Number	-	X26
Serial Number	-	X00-145582
Battery Status	percent	71
CEW Temperature	degrees Celsius	19
Software Revision	-	21
Load Resistance	ohms	594.66
Comments:	-	Central Saanich

Overall CEW Status:
<b>In Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	130.7	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	102.4	80	125
Main Phase Peak Current	amps	In Tolerance	3.09	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1837	1400	2520
Pulse Rate	pulses/second	In Tolerance	18.6	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 92 Pulses	Standard Deviation of 92 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	130.5	2.1	131.3	130.7	134.5	135.6	125.7
Arc Phase Net Charge	microcoulombs	8.2	0.1	8.3	8.1	8.4	8.5	7.9
Arc Phase Peak Current	amps	3.08	0.05	3.13	3.08	3.19	3.22	2.97
Main Phase Net Charge	microcoulombs	102.6	2.4	104.5	102.4	107.4	108.7	98.1
Main Phase Total Charge	microcoulombs	105.9	2.4	107.8	105.6	110.7	112.1	101.3
Main Phase Peak Current	amps	3.09	0.05	3.14	3.09	3.19	3.22	2.99
Main Phase Peak Voltage	volts	1837	31	1869	1837	1897	1913	1779
Main Phase Energy	millijoules	81.9	3.2	84.7	81.7	88.2	90.8	76.3
Full Pulse Net Charge	microcoulombs	94.4	2.3	96.2	94.2	99.0	100.1	90.0
Full Pulse Energy	millijoules	93.7	3.5	96.8	93.4	100.6	103.6	87.4
Pulse Rate	pulses/second	18.6						
Charge/Second	milliamps	1.9						
Energy/Second	watts	1.7						
Duration of Cycle	seconds	4.9478						
Total Number of Pulses	-	92						

**5.4 TEST RESULTS - DELTA**

CEW Details

Model Number	-	X26
Serial Number	-	X00-098483
Battery Status	percent	86
CEW Temperature	degrees Celsius	23
Software Revision	-	20
Load Resistance	ohms	594.66
Comments:	-	Delta

Overall CEW Status:
<b>In Tolerance</b>

TI CEW Operating Parameters

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	139.1	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	112.4	80	125
Main Phase Peak Current	amps	In Tolerance	3.29	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1957	1400	2520
Pulse Rate	pulses/second	In Tolerance	18.1	16.5	20.0

Supplemental Test Parameters

	Units	Average of 89 Pulses	Standard Deviation of 89 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	139.6	1.6	139.9	139.1	142.5	143.1	135.2
Arc Phase Net Charge	microcoulombs	8.8	0.1	8.8	8.8	8.9	9.0	8.6
Arc Phase Peak Current	amps	3.37	0.03	3.41	3.39	3.44	3.45	3.30
Main Phase Net Charge	microcoulombs	112.3	1.8	113.8	112.4	115.7	116.4	108.4
Main Phase Total Charge	microcoulombs	115.5	1.8	117.0	115.6	118.9	119.6	111.6
Main Phase Peak Current	amps	3.27	0.03	3.30	3.29	3.33	3.34	3.21
Main Phase Peak Voltage	volts	1947	18	1965	1957	1982	1987	1909
Main Phase Energy	millijoules	95.8	2.2	98.0	96.4	99.9	100.5	92.0
Full Pulse Net Charge	microcoulombs	103.5	1.8	104.9	103.6	106.9	107.6	99.7
Full Pulse Energy	millijoules	109.6	2.4	112.0	110.3	114.0	114.7	105.5
Pulse Rate	pulses/second	18.1						
Charge/Second	milliamps	2.0						
Energy/Second	watts	2.0						
Duration of Cycle	seconds	4.9060						
Total Number of Pulses	-	89						

**CEW Details**

Model Number	-	X26
Serial Number	-	X00-130655
Battery Status	percent	43
CEW Temperature	degrees Celsius	24
Software Revision	-	18
Load Resistance	ohms	594.66
Comments:	-	Delta

Overall CEW Status:
<b>In Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	128.2	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	103.2	80	125
Main Phase Peak Current	amps	In Tolerance	3.09	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1837	1400	2520
Pulse Rate	pulses/second	In Tolerance	18.6	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 92 Pulses	Standard Deviation of 92 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	128.3	1.9	127.2	128.2	131.9	133.6	124.5
Arc Phase Net Charge	microcoulombs	8.2	0.2	8.1	8.2	8.6	8.9	7.9
Arc Phase Peak Current	amps	3.10	0.07	3.05	3.12	3.28	3.37	3.00
Main Phase Net Charge	microcoulombs	102.7	2.7	100.3	103.2	108.9	112.1	97.2
Main Phase Total Charge	microcoulombs	106.0	2.8	103.7	106.6	112.4	115.9	100.6
Main Phase Peak Current	amps	3.07	0.07	3.01	3.09	3.25	3.35	2.96
Main Phase Peak Voltage	volts	1825	43	1792	1837	1931	1993	1762
Main Phase Energy	millijoules	81.5	4.1	78.1	82.4	91.7	97.7	74.8
Full Pulse Net Charge	microcoulombs	94.5	2.5	92.3	95.0	100.3	103.2	89.3
Full Pulse Energy	millijoules	93.4	4.6	89.6	94.3	104.9	111.7	86.0
Pulse Rate	pulses/second	18.6						
Charge/Second	milliamps	1.9						
Energy/Second	watts	1.7						
Duration of Cycle	seconds	4.9506						
Total Number of Pulses	-	92						

**CEW Details**

Model Number	-	X26
Serial Number	-	X00-163823
Battery Status	percent	xx
CEW Temperature	degrees Celsius	22
Software Revision	-	15
Load Resistance	ohms	594.66
Comments:	-	Delta

Overall CEW Status:
<b>In Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	138.4	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	119.3	80	125
Main Phase Peak Current	amps	In Tolerance	3.36	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1998	1400	2520
Pulse Rate	pulses/second	In Tolerance	18.6	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 92 Pulses	Standard Deviation of 92 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	138.1	2.0	137.5	138.4	141.1	141.9	129.1
Arc Phase Net Charge	microcoulombs	8.6	0.1	8.4	8.7	8.8	8.9	8.3
Arc Phase Peak Current	amps	3.38	0.05	3.31	3.43	3.48	3.52	3.27
Main Phase Net Charge	microcoulombs	117.5	2.2	115.4	119.3	121.4	123.4	111.8
Main Phase Total Charge	microcoulombs	121.4	2.2	119.2	123.3	125.3	127.3	115.8
Main Phase Peak Current	amps	3.30	0.05	3.25	3.36	3.41	3.44	3.20
Main Phase Peak Voltage	volts	1964	31	1931	1998	2025	2049	1904
Main Phase Energy	millijoules	101.9	3.3	98.1	105.2	108.1	111.0	94.3
Full Pulse Net Charge	microcoulombs	108.9	2.1	107.0	110.6	112.7	114.7	103.0
Full Pulse Energy	millijoules	115.4	3.6	111.2	119.1	122.4	125.2	107.1
Pulse Rate	pulses/second	18.6						
Charge/Second	milliamps	2.2						
Energy/Second	watts	2.1						
Duration of Cycle	seconds	4.9530						
Total Number of Pulses	-	92						

**CEW Details**

Model Number	-	X26
Serial Number	-	X00-169621
Battery Status	percent	99
CEW Temperature	degrees Celsius	24
Software Revision	-	21
Load Resistance	ohms	594.66
Comments:	-	Delta

Overall CEW Status:
<b>In Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	132.6	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	110.1	80	125
Main Phase Peak Current	amps	In Tolerance	3.21	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1911	1400	2520
Pulse Rate	pulses/second	In Tolerance	18.6	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 91 Pulses	Standard Deviation of 91 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	133.8	1.9	133.9	132.6	137.0	139.0	129.1
Arc Phase Net Charge	microcoulombs	8.5	0.1	8.6	8.4	8.7	8.7	8.2
Arc Phase Peak Current	amps	3.32	0.04	3.37	3.29	3.40	3.42	3.24
Main Phase Net Charge	microcoulombs	111.6	2.0	112.8	110.1	115.2	117.4	107.0
Main Phase Total Charge	microcoulombs	115.2	2.0	116.4	113.7	118.9	121.0	110.6
Main Phase Peak Current	amps	3.25	0.04	3.29	3.21	3.32	3.35	3.15
Main Phase Peak Voltage	volts	1930	26	1959	1911	1977	1992	1872
Main Phase Energy	millijoules	93.1	2.8	95.5	91.0	98.4	100.8	86.4
Full Pulse Net Charge	microcoulombs	103.1	2.0	104.2	101.7	106.6	108.8	98.7
Full Pulse Energy	millijoules	106.2	3.1	109.0	103.9	112.1	114.4	99.0
Pulse Rate	pulses/second	18.6						
Charge/Second	milliamps	2.1						
Energy/Second	watts	2.0						
Duration of Cycle	seconds	4.9036						
Total Number of Pulses	-	91						

**CEW Details**

Model Number	-	X26
Serial Number	-	X00-169700
Battery Status	percent	45
CEW Temperature	degrees Celsius	23
Software Revision	-	20
Load Resistance	ohms	594.66
Comments:	-	Delta

Overall CEW Status:
<b>In Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	136.1	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	111.0	80	125
Main Phase Peak Current	amps	In Tolerance	3.14	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1868	1400	2520
Pulse Rate	pulses/second	In Tolerance	18.2	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 89 Pulses	Standard Deviation of 89 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	137.2	2.2	137.5	136.1	141.0	142.6	131.9
Arc Phase Net Charge	microcoulombs	9.0	0.3	9.1	8.5	9.5	9.7	8.4
Arc Phase Peak Current	amps	3.42	0.11	3.45	3.20	3.60	3.69	3.19
Main Phase Net Charge	microcoulombs	118.2	4.0	119.1	111.0	125.2	129.4	107.9
Main Phase Total Charge	microcoulombs	121.6	4.2	122.6	114.1	128.8	133.1	111.0
Main Phase Peak Current	amps	3.34	0.11	3.36	3.14	3.52	3.62	3.11
Main Phase Peak Voltage	volts	1984	64	2000	1868	2091	2153	1849
Main Phase Energy	millijoules	102.8	6.9	104.5	90.1	114.4	121.9	87.3
Full Pulse Net Charge	microcoulombs	109.2	3.8	110.0	102.5	115.8	119.7	99.4
Full Pulse Energy	millijoules	117.3	7.8	119.1	102.8	130.3	138.6	99.9
Pulse Rate	pulses/second	18.2						
Charge/Second	milliamps	2.1						
Energy/Second	watts	2.1						
Duration of Cycle	seconds	4.9033						
Total Number of Pulses	-	89						

**CEW Details**

Model Number	-	X26
Serial Number	-	X00-169709
Battery Status	percent	79
CEW Temperature	degrees Celsius	22
Software Revision	-	20
Load Resistance	ohms	594.66
Comments:	-	Delta

Overall CEW Status:
<b>In Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	132.9	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	108.6	80	125
Main Phase Peak Current	amps	In Tolerance	3.26	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1941	1400	2520
Pulse Rate	pulses/second	In Tolerance	18.6	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 92 Pulses	Standard Deviation of 92 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	133.8	3.7	134.2	132.9	139.7	142.1	123.3
Arc Phase Net Charge	microcoulombs	8.6	0.3	8.2	8.7	9.1	9.2	8.1
Arc Phase Peak Current	amps	3.32	0.12	3.14	3.34	3.53	3.60	3.10
Main Phase Net Charge	microcoulombs	108.7	4.0	104.1	108.6	115.9	117.5	100.7
Main Phase Total Charge	microcoulombs	112.9	4.1	108.0	112.8	120.3	121.8	104.8
Main Phase Peak Current	amps	3.24	0.11	3.07	3.26	3.45	3.54	3.03
Main Phase Peak Voltage	volts	1928	67	1826	1941	2050	2102	1800
Main Phase Energy	millijoules	90.3	6.3	81.1	90.8	101.7	105.6	78.2
Full Pulse Net Charge	microcoulombs	100.1	3.7	96.0	100.0	106.9	108.6	92.1
Full Pulse Energy	millijoules	103.7	7.2	93.1	104.4	116.7	121.1	89.9
Pulse Rate	pulses/second	18.6						
Charge/Second	milliamps	2.0						
Energy/Second	watts	1.9						
Duration of Cycle	seconds	4.9538						
Total Number of Pulses	-	92						

**5.5 TEST RESULTS - OAK BAY**

CEW Details

Model Number	-	X26
Serial Number	-	X00-157943
Battery Status	percent	79
CEW Temperature	degrees Celsius	21
Software Revision	-	21
Load Resistance	ohms	594.66
Comments:	-	Oak Bay

Overall CEW Status:
<b>In Tolerance</b>

TI CEW Operating Parameters

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	132.9	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	115.5	80	125
Main Phase Peak Current	amps	In Tolerance	3.45	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	2053	1400	2520
Pulse Rate	pulses/second	In Tolerance	17.9	16.5	20.0

Supplemental Test Parameters

	Units	Average of 88 Pulses	Standard Deviation of 88 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	133.4	3.5	134.0	132.9	139.7	142.1	126.0
Arc Phase Net Charge	microcoulombs	9.4	0.2	9.4	9.1	9.8	10.0	8.9
Arc Phase Peak Current	amps	3.53	0.09	3.53	3.44	3.72	3.82	3.36
Main Phase Net Charge	microcoulombs	117.7	3.5	117.6	115.5	124.4	126.2	111.2
Main Phase Total Charge	microcoulombs	122.2	3.6	122.1	119.9	129.0	131.0	115.5
Main Phase Peak Current	amps	3.55	0.09	3.54	3.45	3.73	3.82	3.35
Main Phase Peak Voltage	volts	2110	54	2108	2053	2220	2273	1993
Main Phase Energy	millijoules	109.2	5.4	109.1	104.1	120.0	124.9	99.5
Full Pulse Net Charge	microcoulombs	108.3	3.4	108.3	106.4	114.7	116.4	102.1
Full Pulse Energy	millijoules	124.7	6.1	124.7	118.9	137.1	142.8	113.6
Pulse Rate	pulses/second	17.9						
Charge/Second	milliamps	2.1						
Energy/Second	watts	2.2						
Duration of Cycle	seconds	4.9027						
Total Number of Pulses	-	88						



**5.6 TEST RESULTS - PORT MOODY**

CEW Details

Model Number	-	X26
Serial Number	-	X00-125560
Battery Status	percent	99
CEW Temperature	degrees Celsius	22
Software Revision	-	21
Load Resistance	ohms	594.66
Comments:	-	Port Moody

Overall CEW Status:
<b>In Tolerance</b>

TI CEW Operating Parameters

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	130.7	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	107.8	80	125
Main Phase Peak Current	amps	In Tolerance	3.22	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1914	1400	2520
Pulse Rate	pulses/second	In Tolerance	18.6	16.5	20.0

Supplemental Test Parameters

	Units	Average of 92 Pulses	Standard Deviation of 92 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	130.6	2.3	130.2	130.7	134.2	136.0	123.2
Arc Phase Net Charge	microcoulombs	8.3	0.1	8.3	8.4	8.5	8.5	8.1
Arc Phase Peak Current	amps	3.27	0.04	3.25	3.30	3.34	3.37	3.17
Main Phase Net Charge	microcoulombs	106.8	2.3	105.4	107.8	110.6	111.2	99.7
Main Phase Total Charge	microcoulombs	110.7	2.3	109.3	111.8	114.5	115.1	103.5
Main Phase Peak Current	amps	3.19	0.04	3.16	3.22	3.25	3.27	3.08
Main Phase Peak Voltage	volts	1895	24	1880	1914	1935	1944	1834
Main Phase Energy	millijoules	86.9	2.9	85.1	88.8	91.8	93.1	80.5
Full Pulse Net Charge	microcoulombs	98.5	2.3	97.2	99.4	102.2	102.9	91.4
Full Pulse Energy	millijoules	99.6	3.1	97.6	101.7	104.9	106.3	92.5
Pulse Rate	pulses/second	18.6						
Charge/Second	milliamps	2.0						
Energy/Second	watts	1.9						
Duration of Cycle	seconds	4.9513						
Total Number of Pulses	-	92						

**CEW Details**

Model Number	-	X26
Serial Number	-	X00-126203
Battery Status	percent	79
CEW Temperature	degrees Celsius	21
Software Revision	-	21
Load Resistance	ohms	594.66
Comments:	-	Port Moody

Overall CEW Status:
<b>In Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	129.0	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	101.4	80	125
Main Phase Peak Current	amps	In Tolerance	2.94	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1751	1400	2520
Pulse Rate	pulses/second	In Tolerance	18.6	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 92 Pulses	Standard Deviation of 92 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	128.8	2.4	128.2	129.0	133.1	134.4	120.6
Arc Phase Net Charge	microcoulombs	7.7	0.2	7.5	7.7	8.1	8.6	7.3
Arc Phase Peak Current	amps	2.98	0.09	2.87	2.96	3.15	3.32	2.80
Main Phase Net Charge	microcoulombs	101.6	3.3	97.9	101.4	108.0	111.2	94.6
Main Phase Total Charge	microcoulombs	104.9	3.3	101.0	104.7	111.5	114.9	97.7
Main Phase Peak Current	amps	2.96	0.09	2.84	2.94	3.12	3.27	2.79
Main Phase Peak Voltage	volts	1759	51	1690	1751	1857	1944	1659
Main Phase Energy	millijoules	78.4	4.7	72.3	77.8	88.0	94.7	68.9
Full Pulse Net Charge	microcoulombs	93.9	3.1	90.4	93.7	100.0	102.6	87.3
Full Pulse Energy	millijoules	89.2	5.3	82.4	88.5	100.0	108.1	78.5
Pulse Rate	pulses/second	18.6						
Charge/Second	milliamps	1.9						
Energy/Second	watts	1.7						
Duration of Cycle	seconds	4.9564						
Total Number of Pulses	-	92						

**CEW Details**

Model Number	-	X26
Serial Number	-	X00-182580
Battery Status	percent	99
CEW Temperature	degrees Celsius	21
Software Revision	-	21
Load Resistance	ohms	594.66
Comments:	-	Port Moody

Overall CEW Status:
<b>Below Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	137.0	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	120.8	80	125
Main Phase Peak Current	amps	In Tolerance	3.42	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	2031	1400	2520
Pulse Rate	pulses/second	Below Tolerance	14.5	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 71 Pulses	Standard Deviation of 71 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	140.0	3.5	142.1	137.0	145.4	148.0	125.9
Arc Phase Net Charge	microcoulombs	9.6	0.4	9.8	9.0	10.1	10.1	8.8
Arc Phase Peak Current	amps	3.73	0.15	3.82	3.48	3.91	3.93	3.38
Main Phase Net Charge	microcoulombs	128.4	4.7	131.9	120.8	134.5	136.0	115.0
Main Phase Total Charge	microcoulombs	132.6	4.9	136.2	124.7	138.9	140.4	118.9
Main Phase Peak Current	amps	3.66	0.15	3.75	3.42	3.83	3.86	3.31
Main Phase Peak Voltage	volts	2175	87	2231	2031	2280	2294	1966
Main Phase Energy	millijoules	123.5	9.0	129.7	108.3	135.1	136.5	102.7
Full Pulse Net Charge	microcoulombs	118.7	4.4	122.1	111.8	124.6	126.0	106.0
Full Pulse Energy	millijoules	140.3	10.2	147.3	123.1	153.5	154.8	116.7
Pulse Rate	pulses/second	14.5						
Charge/Second	milliamps	1.9						
Energy/Second	watts	2.0						
Duration of Cycle	seconds	4.8991						
Total Number of Pulses	-	71						

**5.7 TEST RESULTS - SAANICH**

CEW Details

Model Number	-	X26
Serial Number	-	X00-129747
Battery Status	percent	EE
CEW Temperature	degrees Celsius	22
Software Revision	-	21
Load Resistance	ohms	594.66
Comments:	-	Saanich

Overall CEW Status:
<b>In Tolerance</b>

TI CEW Operating Parameters

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	131.0	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	111.4	80	125
Main Phase Peak Current	amps	In Tolerance	3.19	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1897	1400	2520
Pulse Rate	pulses/second	In Tolerance	18.6	16.5	20.0

Supplemental Test Parameters

	Units	Average of 92 Pulses	Standard Deviation of 92 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	131.6	1.7	131.9	131.0	134.7	136.1	125.6
Arc Phase Net Charge	microcoulombs	8.5	0.1	8.5	8.5	8.7	8.7	8.2
Arc Phase Peak Current	amps	3.30	0.04	3.31	3.29	3.38	3.41	3.21
Main Phase Net Charge	microcoulombs	111.9	2.2	111.9	111.4	116.3	118.6	107.1
Main Phase Total Charge	microcoulombs	115.1	2.2	115.1	114.6	119.5	121.9	110.3
Main Phase Peak Current	amps	3.20	0.04	3.20	3.19	3.29	3.33	3.11
Main Phase Peak Voltage	volts	1904	25	1905	1897	1956	1980	1849
Main Phase Energy	millijoules	92.3	2.9	92.3	91.6	98.4	101.5	86.3
Full Pulse Net Charge	microcoulombs	103.4	2.2	103.4	102.9	107.7	109.9	98.4
Full Pulse Energy	millijoules	105.5	3.1	105.5	104.6	112.0	115.5	98.9
Pulse Rate	pulses/second	18.6						
Charge/Second	milliamps	2.1						
Energy/Second	watts	2.0						
Duration of Cycle	seconds	4.9505						
Total Number of Pulses	-	92						

**CEW Details**

Model Number	-	X26
Serial Number	-	X00-144353
Battery Status	percent	0
CEW Temperature	degrees Celsius	24
Software Revision	-	21
Load Resistance	ohms	594.66
Comments:	-	Saanich

Overall CEW Status:
<b>In Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	127.3	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	107.0	80	125
Main Phase Peak Current	amps	In Tolerance	3.11	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1848	1400	2520
Pulse Rate	pulses/second	In Tolerance	18.6	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 92 Pulses	Standard Deviation of 92 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	128.4	1.9	130.4	127.3	132.2	133.8	123.8
Arc Phase Net Charge	microcoulombs	8.3	0.1	8.3	8.4	8.5	8.5	8.0
Arc Phase Peak Current	amps	3.19	0.06	3.20	3.22	3.27	3.28	3.08
Main Phase Net Charge	microcoulombs	105.9	2.6	106.8	107.0	110.5	111.7	100.2
Main Phase Total Charge	microcoulombs	108.9	2.6	109.8	109.9	113.5	114.7	103.0
Main Phase Peak Current	amps	3.08	0.05	3.09	3.11	3.16	3.19	2.98
Main Phase Peak Voltage	volts	1833	31	1839	1848	1882	1895	1772
Main Phase Energy	millijoules	84.5	3.5	85.1	86.2	90.3	92.1	77.6
Full Pulse Net Charge	microcoulombs	97.6	2.5	98.5	98.6	102.0	103.2	92.0
Full Pulse Energy	millijoules	96.8	3.8	97.6	98.8	103.3	105.1	89.4
Pulse Rate	pulses/second	18.6						
Charge/Second	milliamps	2.0						
Energy/Second	watts	1.8						
Duration of Cycle	seconds	4.9516						
Total Number of Pulses	-	92						

**CEW Details**

Model Number	-	X26
Serial Number	-	X00-167774
Battery Status	percent	86
CEW Temperature	degrees Celsius	21
Software Revision	-	21
Load Resistance	ohms	594.66
Comments:	-	Saanich

Overall CEW Status:
<b>Above / Below Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	139.4	105	155
Main Phase Net Charge	microcoulombs	Above Tolerance	128.7	80	125
Main Phase Peak Current	amps	In Tolerance	3.65	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	2173	1400	2520
Pulse Rate	pulses/second	Below Tolerance	16.1	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 79 Pulses	Standard Deviation of 79 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	139.8	2.2	140.8	139.4	143.5	146.9	132.5
Arc Phase Net Charge	microcoulombs	9.6	0.2	9.5	9.5	9.9	10.0	9.2
Arc Phase Peak Current	amps	3.76	0.07	3.73	3.76	3.89	3.92	3.63
Main Phase Net Charge	microcoulombs	128.6	2.8	128.5	128.7	132.9	133.7	122.1
Main Phase Total Charge	microcoulombs	132.5	2.8	132.4	132.7	136.9	137.8	125.9
Main Phase Peak Current	amps	3.65	0.07	3.62	3.65	3.77	3.81	3.51
Main Phase Peak Voltage	volts	2171	42	2155	2173	2242	2264	2089
Main Phase Energy	millijoules	121.4	4.8	120.1	121.7	129.4	131.5	111.1
Full Pulse Net Charge	microcoulombs	119.0	2.7	119.0	119.2	123.1	123.8	112.5
Full Pulse Energy	millijoules	138.2	5.3	136.7	138.5	147.2	149.5	126.8
Pulse Rate	pulses/second	16.1						
Charge/Second	milliamps	2.1						
Energy/Second	watts	2.2						
Duration of Cycle	seconds	4.9079						
Total Number of Pulses	-	79						

**CEW Details**

Model Number	-	X26
Serial Number	-	X00-190898
Battery Status	percent	91
CEW Temperature	degrees Celsius	24
Software Revision	-	21
Load Resistance	ohms	594.66
Comments:	-	Saanich

Overall CEW Status:
<b>In Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	132.4	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	108.6	80	125
Main Phase Peak Current	amps	In Tolerance	3.04	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1806	1400	2520
Pulse Rate	pulses/second	In Tolerance	18.6	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 92 Pulses	Standard Deviation of 92 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	132.2	2.0	133.0	132.4	135.8	137.4	126.5
Arc Phase Net Charge	microcoulombs	8.2	0.1	8.1	8.3	8.3	8.3	8.0
Arc Phase Peak Current	amps	3.06	0.03	3.04	3.10	3.11	3.12	2.99
Main Phase Net Charge	microcoulombs	106.7	2.0	106.4	108.6	109.7	110.1	100.6
Main Phase Total Charge	microcoulombs	109.7	2.0	109.3	111.6	112.7	113.1	103.6
Main Phase Peak Current	amps	3.00	0.03	2.98	3.04	3.05	3.06	2.92
Main Phase Peak Voltage	volts	1785	18	1775	1806	1816	1822	1735
Main Phase Energy	millijoules	83.6	2.2	82.6	86.0	87.0	88.0	77.4
Full Pulse Net Charge	microcoulombs	98.5	1.9	98.2	100.3	101.5	101.8	92.6
Full Pulse Energy	millijoules	95.3	2.3	94.2	98.0	99.0	100.0	88.7
Pulse Rate	pulses/second	18.6						
Charge/Second	milliamps	2.0						
Energy/Second	watts	1.8						
Duration of Cycle	seconds	4.9490						
Total Number of Pulses	-	92						

**CEW Details**

Model Number	-	X26
Serial Number	-	X00-190900
Battery Status	percent	75
CEW Temperature	degrees Celsius	24
Software Revision	-	21
Load Resistance	ohms	594.66
Comments:	-	Saanich

Overall CEW Status:
<b>In Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	135.6	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	123.9	80	125
Main Phase Peak Current	amps	In Tolerance	3.59	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	2137	1400	2520
Pulse Rate	pulses/second	In Tolerance	17.7	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 87 Pulses	Standard Deviation of 87 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	135.1	2.7	136.2	135.6	139.9	140.9	128.1
Arc Phase Net Charge	microcoulombs	9.3	0.1	9.3	9.4	9.5	9.7	9.0
Arc Phase Peak Current	amps	3.52	0.06	3.52	3.55	3.62	3.65	3.40
Main Phase Net Charge	microcoulombs	122.9	2.6	123.9	123.9	127.5	128.4	118.1
Main Phase Total Charge	microcoulombs	126.8	2.6	127.8	127.8	131.5	132.4	122.2
Main Phase Peak Current	amps	3.56	0.06	3.56	3.59	3.67	3.71	3.45
Main Phase Peak Voltage	volts	2118	38	2117	2137	2182	2206	2051
Main Phase Energy	millijoules	115.6	3.8	116.2	117.5	122.0	122.9	108.4
Full Pulse Net Charge	microcoulombs	113.6	2.5	114.6	114.5	118.2	118.9	108.8
Full Pulse Energy	millijoules	131.0	4.2	131.5	133.2	138.0	139.3	123.1
Pulse Rate	pulses/second	17.7						
Charge/Second	milliamps	2.2						
Energy/Second	watts	2.3						
Duration of Cycle	seconds	4.9131						
Total Number of Pulses	-	87						



**CEW Details**

Model Number	-	X26
Serial Number	-	X00-190958
Battery Status	percent	64
CEW Temperature	degrees Celsius	23
Software Revision	-	21
Load Resistance	ohms	594.66
Comments:	-	Saanich

Overall CEW Status:
<b>In Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	134.0	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	113.1	80	125
Main Phase Peak Current	amps	In Tolerance	3.30	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1961	1400	2520
Pulse Rate	pulses/second	In Tolerance	18.0	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 89 Pulses	Standard Deviation of 89 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	134.0	3.7	137.0	134.0	140.3	143.2	124.8
Arc Phase Net Charge	microcoulombs	8.9	0.4	9.1	8.7	9.5	9.8	8.3
Arc Phase Peak Current	amps	3.48	0.15	3.55	3.38	3.73	3.86	3.22
Main Phase Net Charge	microcoulombs	115.4	5.9	119.6	113.1	125.5	129.5	102.4
Main Phase Total Charge	microcoulombs	119.3	6.0	123.5	116.9	129.6	133.8	106.0
Main Phase Peak Current	amps	3.39	0.15	3.46	3.30	3.64	3.76	3.10
Main Phase Peak Voltage	volts	2013	89	2060	1961	2165	2236	1846
Main Phase Energy	millijoules	101.1	9.4	106.8	96.0	117.4	124.9	84.2
Full Pulse Net Charge	microcoulombs	106.5	5.6	110.6	104.4	116.0	119.7	94.1
Full Pulse Energy	millijoules	115.6	10.6	121.8	109.7	133.9	142.6	96.8
Pulse Rate	pulses/second	18.0						
Charge/Second	milliamps	2.1						
Energy/Second	watts	2.1						
Duration of Cycle	seconds	4.9377						
Total Number of Pulses	-	89						

**5.8 TEST RESULTS - VANCOUVER**

CEW Details

Model Number	-	X26
Serial Number	-	X00-098270
Battery Status	percent	91
CEW Temperature	degrees Celsius	21
Software Revision	-	21
Load Resistance	ohms	594.66
Comments:	-	Vancouver

Overall CEW Status:
<b>In Tolerance</b>

TI CEW Operating Parameters

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	134.2	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	110.8	80	125
Main Phase Peak Current	amps	In Tolerance	3.29	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1954	1400	2520
Pulse Rate	pulses/second	In Tolerance	16.8	16.5	20.0

Supplemental Test Parameters

	Units	Average of 83 Pulses	Standard Deviation of 83 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	134.3	2.3	134.0	134.2	138.2	139.4	128.6
Arc Phase Net Charge	microcoulombs	8.7	0.1	8.6	8.7	9.0	9.1	8.4
Arc Phase Peak Current	amps	3.39	0.05	3.34	3.41	3.49	3.54	3.25
Main Phase Net Charge	microcoulombs	110.1	2.4	108.5	110.8	114.4	115.4	105.5
Main Phase Total Charge	microcoulombs	112.8	2.4	111.2	113.6	117.2	118.0	108.2
Main Phase Peak Current	amps	3.26	0.05	3.22	3.29	3.36	3.40	3.14
Main Phase Peak Voltage	volts	1939	31	1912	1954	1996	2022	1867
Main Phase Energy	millijoules	95.5	3.3	92.8	96.9	101.4	103.3	88.4
Full Pulse Net Charge	microcoulombs	101.4	2.3	99.9	102.1	105.6	106.7	97.0
Full Pulse Energy	millijoules	109.3	3.7	106.2	110.9	116.0	118.2	101.2
Pulse Rate	pulses/second	16.8						
Charge/Second	milliamps	1.9						
Energy/Second	watts	1.8						
Duration of Cycle	seconds	4.9323						
Total Number of Pulses	-	83						

**CEW Details**

Model Number	-	X26
Serial Number	-	X00-106738
Battery Status	percent	21
CEW Temperature	degrees Celsius	21
Software Revision	-	21
Load Resistance	ohms	594.66
Comments:	-	Vancouver

Overall CEW Status:
<b>In Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	129.8	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	101.0	80	125
Main Phase Peak Current	amps	In Tolerance	3.07	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1823	1400	2520
Pulse Rate	pulses/second	In Tolerance	18.6	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 92 Pulses	Standard Deviation of 92 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	130.4	3.8	131.6	129.8	136.5	138.1	121.8
Arc Phase Net Charge	microcoulombs	8.2	0.2	8.1	8.3	8.4	8.6	7.8
Arc Phase Peak Current	amps	3.10	0.06	3.09	3.15	3.21	3.26	2.98
Main Phase Net Charge	microcoulombs	99.8	3.3	99.8	101.0	106.0	107.1	93.0
Main Phase Total Charge	microcoulombs	102.3	3.3	102.3	103.5	108.6	109.8	95.5
Main Phase Peak Current	amps	3.02	0.07	3.01	3.07	3.13	3.18	2.88
Main Phase Peak Voltage	volts	1798	39	1788	1823	1864	1894	1714
Main Phase Energy	millijoules	79.9	3.9	79.3	82.3	87.0	89.4	71.6
Full Pulse Net Charge	microcoulombs	91.7	3.2	91.6	92.7	97.7	98.6	85.1
Full Pulse Energy	millijoules	91.8	4.3	91.0	94.5	99.6	102.2	82.5
Pulse Rate	pulses/second	18.6						
Charge/Second	milliamps	1.9						
Energy/Second	watts	1.7						
Duration of Cycle	seconds	4.9528						
Total Number of Pulses	-	92						

**CEW Details**

Model Number	-	X26
Serial Number	-	X00-122151
Battery Status	percent	92
CEW Temperature	degrees Celsius	22
Software Revision	-	20
Load Resistance	ohms	594.66
Comments:	-	Vancouver

Overall CEW Status:
<b>In Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	131.5	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	102.8	80	125
Main Phase Peak Current	amps	In Tolerance	3.15	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1870	1400	2520
Pulse Rate	pulses/second	In Tolerance	18.5	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 91 Pulses	Standard Deviation of 91 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	131.9	3.3	134.2	131.5	136.6	137.9	120.1
Arc Phase Net Charge	microcoulombs	8.5	0.2	8.3	8.4	8.8	9.0	8.2
Arc Phase Peak Current	amps	3.25	0.07	3.21	3.23	3.40	3.45	3.12
Main Phase Net Charge	microcoulombs	104.2	2.7	103.5	102.8	109.2	111.1	98.0
Main Phase Total Charge	microcoulombs	107.5	2.7	106.8	106.1	112.6	114.4	101.2
Main Phase Peak Current	amps	3.17	0.07	3.13	3.15	3.32	3.38	3.03
Main Phase Peak Voltage	volts	1885	40	1859	1870	1976	2011	1799
Main Phase Energy	millijoules	85.9	4.0	83.7	84.1	94.6	97.1	76.7
Full Pulse Net Charge	microcoulombs	95.8	2.6	95.2	94.4	100.5	102.3	89.6
Full Pulse Energy	millijoules	98.8	4.5	96.2	96.8	108.6	111.6	88.6
Pulse Rate	pulses/second	18.5						
Charge/Second	milliamps	1.9						
Energy/Second	watts	1.8						
Duration of Cycle	seconds	4.9249						
Total Number of Pulses	-	91						

**CEW Details**

Model Number	-	X26
Serial Number	-	X00-125024
Battery Status	percent	93
CEW Temperature	degrees Celsius	23
Software Revision	-	21
Load Resistance	ohms	594.66
Comments:	-	Vancouver

Overall CEW Status:
<b>In Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	132.5	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	117.3	80	125
Main Phase Peak Current	amps	In Tolerance	3.42	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	2031	1400	2520
Pulse Rate	pulses/second	In Tolerance	18.4	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 91 Pulses	Standard Deviation of 91 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	133.2	3.1	135.9	132.5	138.7	142.3	124.1
Arc Phase Net Charge	microcoulombs	8.8	0.2	8.8	9.0	9.2	9.4	8.4
Arc Phase Peak Current	amps	3.38	0.08	3.39	3.47	3.55	3.62	3.21
Main Phase Net Charge	microcoulombs	114.4	3.3	115.8	117.3	120.6	122.8	106.1
Main Phase Total Charge	microcoulombs	118.1	3.3	119.5	121.1	124.3	126.6	109.8
Main Phase Peak Current	amps	3.32	0.08	3.33	3.42	3.48	3.54	3.16
Main Phase Peak Voltage	volts	1974	47	1981	2031	2070	2106	1882
Main Phase Energy	millijoules	97.9	5.0	98.8	103.6	108.2	111.7	88.4
Full Pulse Net Charge	microcoulombs	105.6	3.1	106.9	108.3	111.5	113.6	97.4
Full Pulse Energy	millijoules	111.9	5.6	112.8	118.3	123.4	127.7	101.1
Pulse Rate	pulses/second	18.4						
Charge/Second	milliamps	2.1						
Energy/Second	watts	2.1						
Duration of Cycle	seconds	4.9362						
Total Number of Pulses	-	91						

**CEW Details**

Model Number	-	X26
Serial Number	-	X00-125698
Battery Status	percent	87
CEW Temperature	degrees Celsius	23
Software Revision	-	12
Load Resistance	ohms	594.66
Comments:	-	Vancouver

Overall CEW Status:
<b>Below Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	136.4	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	117.4	80	125
Main Phase Peak Current	amps	In Tolerance	3.35	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1991	1400	2520
Pulse Rate	pulses/second	Below Tolerance	15.5	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 76 Pulses	Standard Deviation of 76 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	139.5	2.8	141.2	136.4	144.6	146.4	131.6
Arc Phase Net Charge	microcoulombs	9.4	0.4	9.9	9.0	10.1	10.3	8.6
Arc Phase Peak Current	amps	3.61	0.16	3.82	3.45	3.89	3.98	3.29
Main Phase Net Charge	microcoulombs	123.2	5.1	129.4	117.4	132.4	135.3	112.3
Main Phase Total Charge	microcoulombs	126.8	5.3	133.3	120.8	136.4	139.2	115.6
Main Phase Peak Current	amps	3.50	0.14	3.69	3.35	3.76	3.83	3.19
Main Phase Peak Voltage	volts	2081	84	2196	1991	2233	2279	1899
Main Phase Energy	millijoules	110.3	8.9	122.2	100.6	126.8	131.1	91.7
Full Pulse Net Charge	microcoulombs	113.7	4.8	119.5	108.4	122.4	125.1	103.7
Full Pulse Energy	millijoules	126.2	10.2	139.9	115.1	145.1	149.5	105.0
Pulse Rate	pulses/second	15.5						
Charge/Second	milliamps	1.9						
Energy/Second	watts	2.0						
Duration of Cycle	seconds	4.9004						
Total Number of Pulses	-	76						

**CEW Details**

Model Number	-	X26
Serial Number	-	X00-125700
Battery Status	percent	99
CEW Temperature	degrees Celsius	21
Software Revision	-	21
Load Resistance	ohms	594.66
Comments:	-	Vancouver

Overall CEW Status:
<b>In Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	132.2	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	112.4	80	125
Main Phase Peak Current	amps	In Tolerance	3.29	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1955	1400	2520
Pulse Rate	pulses/second	In Tolerance	18.2	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 90 Pulses	Standard Deviation of 90 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	134.0	3.0	133.7	132.2	138.7	140.3	126.2
Arc Phase Net Charge	microcoulombs	8.7	0.1	8.7	8.6	9.0	9.1	8.5
Arc Phase Peak Current	amps	3.44	0.05	3.44	3.38	3.55	3.57	3.34
Main Phase Net Charge	microcoulombs	114.4	2.6	114.6	112.4	118.6	119.5	107.4
Main Phase Total Charge	microcoulombs	118.3	2.6	118.5	116.1	122.5	123.3	111.2
Main Phase Peak Current	amps	3.35	0.05	3.35	3.29	3.44	3.48	3.25
Main Phase Peak Voltage	volts	1991	29	1991	1955	2047	2071	1933
Main Phase Energy	millijoules	99.4	3.2	99.6	96.0	105.0	106.6	92.2
Full Pulse Net Charge	microcoulombs	105.7	2.5	105.9	103.8	109.7	110.6	98.9
Full Pulse Energy	millijoules	113.4	3.6	113.6	109.6	119.7	121.6	105.6
Pulse Rate	pulses/second	18.2						
Charge/Second	milliamps	2.1						
Energy/Second	watts	2.1						
Duration of Cycle	seconds	4.9370						
Total Number of Pulses	-	90						

**CEW Details**

Model Number	-	X26
Serial Number	-	X00-125815
Battery Status	percent	88
CEW Temperature	degrees Celsius	24
Software Revision	-	21
Load Resistance	ohms	594.66
Comments:	-	Vancouver

Overall CEW Status:
<b>In Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	131.3	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	117.4	80	125
Main Phase Peak Current	amps	In Tolerance	3.49	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	2074	1400	2520
Pulse Rate	pulses/second	In Tolerance	17.3	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 85 Pulses	Standard Deviation of 85 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	131.6	1.7	130.5	131.3	135.2	136.8	128.3
Arc Phase Net Charge	microcoulombs	9.1	0.2	9.0	9.2	9.5	9.9	8.8
Arc Phase Peak Current	amps	3.43	0.07	3.39	3.48	3.58	3.76	3.32
Main Phase Net Charge	microcoulombs	116.1	2.2	114.6	117.4	120.6	122.9	112.3
Main Phase Total Charge	microcoulombs	119.7	2.2	118.1	121.0	124.3	126.5	115.8
Main Phase Peak Current	amps	3.43	0.07	3.40	3.49	3.58	3.73	3.34
Main Phase Peak Voltage	volts	2041	40	2020	2074	2128	2220	1988
Main Phase Energy	millijoules	104.7	3.9	102.3	107.7	112.9	120.3	98.8
Full Pulse Net Charge	microcoulombs	107.0	2.1	105.6	108.2	111.3	113.5	103.4
Full Pulse Energy	millijoules	119.3	4.4	116.6	122.7	128.6	137.6	112.8
Pulse Rate	pulses/second	17.3						
Charge/Second	milliamps	2.0						
Energy/Second	watts	2.1						
Duration of Cycle	seconds	4.8993						
Total Number of Pulses	-	85						



**CEW Details**

Model Number	-	X26
Serial Number	-	X00-125845
Battery Status	percent	88
CEW Temperature	degrees Celsius	24
Software Revision	-	21
Load Resistance	ohms	594.66
Comments:	-	Vancouver

Overall CEW Status:
<b>In Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	133.5	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	108.3	80	125
Main Phase Peak Current	amps	In Tolerance	3.08	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1833	1400	2520
Pulse Rate	pulses/second	In Tolerance	18.6	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 92 Pulses	Standard Deviation of 92 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	132.6	2.2	132.0	133.5	136.5	138.9	124.8
Arc Phase Net Charge	microcoulombs	8.1	0.1	8.0	8.2	8.3	8.3	7.8
Arc Phase Peak Current	amps	3.13	0.04	3.11	3.18	3.20	3.21	3.01
Main Phase Net Charge	microcoulombs	106.2	2.1	105.5	108.3	110.1	111.7	100.3
Main Phase Total Charge	microcoulombs	109.6	2.1	108.8	111.8	113.5	115.1	103.6
Main Phase Peak Current	amps	3.03	0.04	3.02	3.08	3.10	3.10	2.96
Main Phase Peak Voltage	volts	1804	21	1795	1833	1841	1845	1762
Main Phase Energy	millijoules	83.0	2.4	81.8	86.0	87.3	88.3	78.0
Full Pulse Net Charge	microcoulombs	98.1	2.0	97.4	100.1	101.9	103.6	92.4
Full Pulse Energy	millijoules	94.8	2.7	93.5	98.2	99.5	100.4	89.5
Pulse Rate	pulses/second	18.6						
Charge/Second	milliamps	2.0						
Energy/Second	watts	1.8						
Duration of Cycle	seconds	4.9536						
Total Number of Pulses	-	92						

**CEW Details**

Model Number	-	X26
Serial Number	-	X00-125893
Battery Status	percent	84
CEW Temperature	degrees Celsius	20
Software Revision	-	21
Load Resistance	ohms	594.66
Comments:	-	Vancouver

Overall CEW Status:
<b>In Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	128.6	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	113.2	80	125
Main Phase Peak Current	amps	In Tolerance	3.24	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1928	1400	2520
Pulse Rate	pulses/second	In Tolerance	18.0	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 89 Pulses	Standard Deviation of 89 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	130.1	4.4	134.1	128.6	136.7	137.9	122.0
Arc Phase Net Charge	microcoulombs	8.6	0.2	8.6	8.6	9.0	9.0	8.2
Arc Phase Peak Current	amps	3.38	0.08	3.39	3.38	3.53	3.55	3.23
Main Phase Net Charge	microcoulombs	113.5	4.3	116.4	113.2	121.2	124.4	104.2
Main Phase Total Charge	microcoulombs	116.7	4.3	119.7	116.4	124.5	127.7	107.2
Main Phase Peak Current	amps	3.24	0.07	3.27	3.24	3.38	3.41	3.11
Main Phase Peak Voltage	volts	1929	41	1945	1928	2009	2026	1852
Main Phase Energy	millijoules	96.7	5.1	99.3	96.7	106.2	110.2	86.0
Full Pulse Net Charge	microcoulombs	104.9	4.2	107.8	104.6	112.3	115.4	95.9
Full Pulse Energy	millijoules	110.3	5.7	112.9	110.3	120.9	125.1	98.5
Pulse Rate	pulses/second	18.0						
Charge/Second	milliamps	2.0						
Energy/Second	watts	2.0						
Duration of Cycle	seconds	4.9462						
Total Number of Pulses	-	89						

**CEW Details**

Model Number	-	X26
Serial Number	-	X00-125945
Battery Status	percent	85
CEW Temperature	degrees Celsius	22
Software Revision	-	21
Load Resistance	ohms	594.66
Comments:	-	Vancouver

Overall CEW Status:
<b>In Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	129.3	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	104.3	80	125
Main Phase Peak Current	amps	In Tolerance	3.03	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1802	1400	2520
Pulse Rate	pulses/second	In Tolerance	18.2	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 90 Pulses	Standard Deviation of 90 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	128.5	2.3	128.2	129.3	132.9	133.9	123.1
Arc Phase Net Charge	microcoulombs	8.1	0.1	7.9	8.1	8.3	8.5	7.8
Arc Phase Peak Current	amps	3.03	0.05	2.97	3.05	3.13	3.19	2.93
Main Phase Net Charge	microcoulombs	103.3	2.2	102.1	104.3	107.4	109.2	98.6
Main Phase Total Charge	microcoulombs	106.5	2.2	105.1	107.5	110.6	112.4	101.6
Main Phase Peak Current	amps	3.01	0.05	2.96	3.03	3.11	3.17	2.92
Main Phase Peak Voltage	volts	1791	31	1759	1802	1852	1885	1734
Main Phase Energy	millijoules	81.2	3.0	78.8	82.4	87.0	90.3	75.0
Full Pulse Net Charge	microcoulombs	95.2	2.1	94.1	96.2	99.2	100.8	90.7
Full Pulse Energy	millijoules	92.7	3.3	89.8	93.9	99.1	102.7	85.8
Pulse Rate	pulses/second	18.2						
Charge/Second	milliamps	1.9						
Energy/Second	watts	1.7						
Duration of Cycle	seconds	4.9463						
Total Number of Pulses	-	90						

**CEW Details**

Model Number	-	X26
Serial Number	-	X00-126004
Battery Status	percent	77
CEW Temperature	degrees Celsius	23
Software Revision	-	21
Load Resistance	ohms	594.66
Comments:	-	Vancouver

Overall CEW Status:
<b>In Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	132.5	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	114.4	80	125
Main Phase Peak Current	amps	In Tolerance	3.20	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1900	1400	2520
Pulse Rate	pulses/second	In Tolerance	18.5	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 91 Pulses	Standard Deviation of 91 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	132.7	2.3	132.1	132.5	136.3	137.3	124.5
Arc Phase Net Charge	microcoulombs	8.6	0.1	8.5	8.6	8.8	9.0	8.3
Arc Phase Peak Current	amps	3.25	0.05	3.19	3.25	3.34	3.38	3.15
Main Phase Net Charge	microcoulombs	114.0	2.4	111.5	114.4	118.1	119.7	105.9
Main Phase Total Charge	microcoulombs	117.2	2.4	114.6	117.6	121.4	122.9	109.0
Main Phase Peak Current	amps	3.19	0.05	3.13	3.20	3.29	3.32	3.09
Main Phase Peak Voltage	volts	1897	27	1864	1900	1956	1973	1837
Main Phase Energy	millijoules	95.8	3.2	91.9	96.3	102.2	105.0	87.1
Full Pulse Net Charge	microcoulombs	105.4	2.3	103.0	105.7	109.3	110.8	97.5
Full Pulse Energy	millijoules	108.9	3.5	104.5	109.5	116.1	118.9	99.5
Pulse Rate	pulses/second	18.5						
Charge/Second	milliamps	2.1						
Energy/Second	watts	2.0						
Duration of Cycle	seconds	4.9266						
Total Number of Pulses	-	91						

**CEW Details**

Model Number	-	X26
Serial Number	-	X00-126027
Battery Status	percent	80
CEW Temperature	degrees Celsius	23
Software Revision	-	21
Load Resistance	ohms	594.66
Comments:	-	Vancouver

Overall CEW Status:
<b>In Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	120.1	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	95.7	80	125
Main Phase Peak Current	amps	In Tolerance	2.55	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1518	1400	2520
Pulse Rate	pulses/second	In Tolerance	18.6	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 92 Pulses	Standard Deviation of 92 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	121.7	2.2	124.4	120.1	125.7	126.8	117.1
Arc Phase Net Charge	microcoulombs	7.5	0.1	7.6	7.5	7.7	7.8	7.3
Arc Phase Peak Current	amps	2.85	0.05	2.92	2.86	2.95	2.98	2.75
Main Phase Net Charge	microcoulombs	96.6	2.7	100.9	95.7	101.7	103.3	91.1
Main Phase Total Charge	microcoulombs	97.1	2.7	101.4	96.3	102.2	103.8	91.7
Main Phase Peak Current	amps	2.55	0.04	2.63	2.55	2.63	2.65	2.47
Main Phase Peak Voltage	volts	1517	25	1562	1518	1565	1577	1471
Main Phase Energy	millijoules	69.5	3.3	75.1	69.0	75.7	77.7	63.5
Full Pulse Net Charge	microcoulombs	89.0	2.6	93.2	88.2	94.1	95.5	83.8
Full Pulse Energy	millijoules	79.6	3.6	85.6	79.2	86.2	88.5	73.1
Pulse Rate	pulses/second	18.6						
Charge/Second	milliamps	1.8						
Energy/Second	watts	1.5						
Duration of Cycle	seconds	4.9477						
Total Number of Pulses	-	92						

**CEW Details**

Model Number	-	X26
Serial Number	-	X00-126209
Battery Status	percent	92
CEW Temperature	degrees Celsius	22
Software Revision	-	21
Load Resistance	ohms	594.66
Comments:	-	Vancouver

Overall CEW Status:
<b>In Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	133.8	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	107.3	80	125
Main Phase Peak Current	amps	In Tolerance	3.02	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1797	1400	2520
Pulse Rate	pulses/second	In Tolerance	18.6	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 91 Pulses	Standard Deviation of 91 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	133.2	2.0	133.9	133.8	136.9	138.6	127.2
Arc Phase Net Charge	microcoulombs	8.2	0.2	8.6	8.2	8.6	8.6	7.9
Arc Phase Peak Current	amps	3.12	0.08	3.26	3.10	3.27	3.30	3.01
Main Phase Net Charge	microcoulombs	107.9	3.4	112.9	107.3	114.6	115.8	101.5
Main Phase Total Charge	microcoulombs	111.1	3.5	116.2	110.5	118.0	119.1	104.6
Main Phase Peak Current	amps	3.05	0.08	3.17	3.02	3.19	3.23	2.91
Main Phase Peak Voltage	volts	1811	49	1888	1797	1897	1920	1730
Main Phase Energy	millijoules	85.0	5.0	93.0	83.7	94.8	97.2	76.6
Full Pulse Net Charge	microcoulombs	99.6	3.2	104.3	99.1	106.1	107.2	93.5
Full Pulse Energy	millijoules	97.0	5.6	106.0	95.6	107.8	110.5	87.9
Pulse Rate	pulses/second	18.6						
Charge/Second	milliamps	2.0						
Energy/Second	watts	1.8						
Duration of Cycle	seconds	4.8953						
Total Number of Pulses	-	91						

**CEW Details**

Model Number	-	X26
Serial Number	-	X00-131043
Battery Status	percent	99
CEW Temperature	degrees Celsius	23
Software Revision	-	21
Load Resistance	ohms	594.66
Comments:	-	Vancouver

Overall CEW Status:
<b>In Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	136.8	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	118.0	80	125
Main Phase Peak Current	amps	In Tolerance	3.36	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	2000	1400	2520
Pulse Rate	pulses/second	In Tolerance	16.6	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 81 Pulses	Standard Deviation of 81 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	137.8	1.8	137.2	136.8	140.8	143.4	130.5
Arc Phase Net Charge	microcoulombs	8.8	0.1	9.0	8.7	9.1	9.2	8.6
Arc Phase Peak Current	amps	3.49	0.05	3.57	3.45	3.58	3.63	3.38
Main Phase Net Charge	microcoulombs	119.9	2.2	121.7	118.0	123.4	124.3	113.8
Main Phase Total Charge	microcoulombs	123.6	2.2	125.5	121.6	127.1	128.0	117.4
Main Phase Peak Current	amps	3.41	0.05	3.48	3.36	3.49	3.53	3.32
Main Phase Peak Voltage	volts	2025	28	2067	2000	2076	2097	1977
Main Phase Energy	millijoules	105.2	3.1	109.2	102.3	110.5	112.3	99.6
Full Pulse Net Charge	microcoulombs	111.1	2.1	112.7	109.2	114.5	115.3	105.1
Full Pulse Energy	millijoules	119.6	3.4	124.2	116.4	125.5	127.9	113.5
Pulse Rate	pulses/second	16.6						
Charge/Second	milliamps	2.0						
Energy/Second	watts	2.0						
Duration of Cycle	seconds	4.8904						
Total Number of Pulses	-	81						

**CEW Details**

Model Number	-	X26
Serial Number	-	X00-144140
Battery Status	percent	93
CEW Temperature	degrees Celsius	22
Software Revision	-	21
Load Resistance	ohms	594.66
Comments:	-	Vancouver

Overall CEW Status:
<b>In Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	127.2	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	99.6	80	125
Main Phase Peak Current	amps	In Tolerance	2.97	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1768	1400	2520
Pulse Rate	pulses/second	In Tolerance	18.6	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 92 Pulses	Standard Deviation of 92 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	130.2	2.8	129.5	127.2	134.9	135.9	121.3
Arc Phase Net Charge	microcoulombs	8.2	0.2	8.5	7.9	8.6	8.7	7.8
Arc Phase Peak Current	amps	3.24	0.09	3.34	3.11	3.39	3.42	3.05
Main Phase Net Charge	microcoulombs	104.2	3.7	108.2	99.6	110.1	112.5	95.4
Main Phase Total Charge	microcoulombs	107.5	3.7	111.6	102.8	113.5	116.0	98.6
Main Phase Peak Current	amps	3.09	0.09	3.20	2.97	3.23	3.25	2.91
Main Phase Peak Voltage	volts	1836	51	1905	1768	1921	1932	1731
Main Phase Energy	millijoules	81.3	5.1	87.9	74.9	89.8	92.3	70.8
Full Pulse Net Charge	microcoulombs	96.0	3.5	99.7	91.7	101.6	103.8	87.3
Full Pulse Energy	millijoules	93.8	5.7	101.1	86.4	103.4	106.1	81.9
Pulse Rate	pulses/second	18.6						
Charge/Second	milliamps	1.9						
Energy/Second	watts	1.7						
Duration of Cycle	seconds	4.9473						
Total Number of Pulses	-	92						



**CEW Details**

Model Number	-	X26
Serial Number	-	X00-158089
Battery Status	percent	92
CEW Temperature	degrees Celsius	24
Software Revision	-	21
Load Resistance	ohms	594.66
Comments:	-	Vancouver

Overall CEW Status:
<b>In Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	135.4	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	118.1	80	125
Main Phase Peak Current	amps	In Tolerance	3.33	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1982	1400	2520
Pulse Rate	pulses/second	In Tolerance	17.5	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 86 Pulses	Standard Deviation of 86 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	139.3	3.1	138.6	135.4	143.8	145.5	127.2
Arc Phase Net Charge	microcoulombs	9.1	0.3	8.8	9.0	9.7	9.9	8.6
Arc Phase Peak Current	amps	3.53	0.13	3.41	3.48	3.76	3.83	3.35
Main Phase Net Charge	microcoulombs	121.3	4.7	117.3	118.1	130.1	132.3	114.0
Main Phase Total Charge	microcoulombs	125.1	4.9	121.0	121.9	134.1	136.3	117.8
Main Phase Peak Current	amps	3.38	0.13	3.26	3.33	3.61	3.69	3.19
Main Phase Peak Voltage	volts	2010	76	1941	1982	2149	2192	1899
Main Phase Energy	millijoules	105.8	8.2	98.6	101.9	120.7	123.4	94.0
Full Pulse Net Charge	microcoulombs	112.1	4.5	108.5	109.0	120.5	122.6	105.0
Full Pulse Energy	millijoules	120.9	9.3	112.7	116.6	137.5	140.3	107.7
Pulse Rate	pulses/second	17.5						
Charge/Second	milliamps	2.1						
Energy/Second	watts	2.1						
Duration of Cycle	seconds	4.9195						
Total Number of Pulses	-	86						

**CEW Details**

Model Number	-	X26
Serial Number	-	X00-158121
Battery Status	percent	95
CEW Temperature	degrees Celsius	23
Software Revision	-	21
Load Resistance	ohms	594.66
Comments:	-	Vancouver

Overall CEW Status:
<b>In Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	136.1	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	121.2	80	125
Main Phase Peak Current	amps	In Tolerance	3.61	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	2147	1400	2520
Pulse Rate	pulses/second	In Tolerance	17.2	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 84 Pulses	Standard Deviation of 84 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	134.4	3.9	132.3	136.1	140.4	142.8	126.7
Arc Phase Net Charge	microcoulombs	9.4	0.1	9.5	9.4	9.6	9.7	9.0
Arc Phase Peak Current	amps	3.64	0.06	3.67	3.64	3.74	3.80	3.48
Main Phase Net Charge	microcoulombs	119.4	3.3	118.8	121.2	124.9	127.5	110.7
Main Phase Total Charge	microcoulombs	123.7	3.3	123.1	125.4	129.2	131.9	114.9
Main Phase Peak Current	amps	3.61	0.06	3.65	3.61	3.71	3.82	3.45
Main Phase Peak Voltage	volts	2146	35	2172	2147	2209	2270	2050
Main Phase Energy	millijoules	111.7	4.1	112.9	113.1	119.2	125.7	101.5
Full Pulse Net Charge	microcoulombs	110.1	3.3	109.3	111.8	115.3	117.9	101.4
Full Pulse Energy	millijoules	127.6	4.5	129.1	129.1	135.9	142.8	116.4
Pulse Rate	pulses/second	17.2						
Charge/Second	milliamps	2.1						
Energy/Second	watts	2.2						
Duration of Cycle	seconds	4.8850						
Total Number of Pulses	-	84						

**CEW Details**

Model Number	-	X26
Serial Number	-	X00-158127
Battery Status	percent	94
CEW Temperature	degrees Celsius	21
Software Revision	-	21
Load Resistance	ohms	594.66
Comments:	-	Vancouver

Overall CEW Status:
<b>In Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	134.0	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	112.6	80	125
Main Phase Peak Current	amps	In Tolerance	3.21	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1909	1400	2520
Pulse Rate	pulses/second	In Tolerance	18.6	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 92 Pulses	Standard Deviation of 92 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	132.9	3.4	131.0	134.0	138.1	139.0	124.5
Arc Phase Net Charge	microcoulombs	8.3	0.1	8.3	8.3	8.6	8.7	8.0
Arc Phase Peak Current	amps	3.28	0.06	3.30	3.32	3.40	3.45	3.17
Main Phase Net Charge	microcoulombs	110.6	3.4	110.1	112.6	117.0	120.5	102.5
Main Phase Total Charge	microcoulombs	114.1	3.4	113.6	116.1	120.6	124.1	106.0
Main Phase Peak Current	amps	3.17	0.06	3.20	3.21	3.28	3.36	3.06
Main Phase Peak Voltage	volts	1886	34	1903	1909	1952	1996	1820
Main Phase Energy	millijoules	90.8	4.0	91.6	93.6	99.1	104.7	82.3
Full Pulse Net Charge	microcoulombs	102.4	3.3	101.8	104.2	108.6	111.8	94.5
Full Pulse Energy	millijoules	103.5	4.4	104.4	106.5	112.5	118.5	94.3
Pulse Rate	pulses/second	18.6						
Charge/Second	milliamps	2.1						
Energy/Second	watts	1.9						
Duration of Cycle	seconds	4.9466						
Total Number of Pulses	-	92						

**CEW Details**

Model Number	-	X26
Serial Number	-	X00-158128
Battery Status	percent	70
CEW Temperature	degrees Celsius	22
Software Revision	-	21
Load Resistance	ohms	594.66
Comments:	-	Vancouver

Overall CEW Status:
<b>In Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	140.9	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	118.7	80	125
Main Phase Peak Current	amps	In Tolerance	3.26	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1937	1400	2520
Pulse Rate	pulses/second	In Tolerance	18.6	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 92 Pulses	Standard Deviation of 92 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	139.0	3.4	133.8	140.9	144.2	145.1	128.9
Arc Phase Net Charge	microcoulombs	8.5	0.2	8.3	8.7	8.8	8.9	8.2
Arc Phase Peak Current	amps	3.31	0.07	3.24	3.39	3.45	3.49	3.18
Main Phase Net Charge	microcoulombs	115.2	4.1	108.9	118.7	122.2	123.5	104.6
Main Phase Total Charge	microcoulombs	118.7	4.1	112.3	122.2	125.7	127.1	107.9
Main Phase Peak Current	amps	3.19	0.07	3.10	3.26	3.31	3.34	3.04
Main Phase Peak Voltage	volts	1896	40	1846	1937	1970	1986	1806
Main Phase Energy	millijoules	94.8	5.1	87.7	99.9	104.4	106.3	83.1
Full Pulse Net Charge	microcoulombs	106.7	4.0	100.6	110.0	113.4	114.6	96.4
Full Pulse Energy	millijoules	108.0	5.6	100.4	113.7	118.6	120.8	95.4
Pulse Rate	pulses/second	18.6						
Charge/Second	milliamps	2.1						
Energy/Second	watts	2.0						
Duration of Cycle	seconds	4.9525						
Total Number of Pulses	-	92						

**CEW Details**

Model Number	-	X26
Serial Number	-	X00-158129
Battery Status	percent	79
CEW Temperature	degrees Celsius	25
Software Revision	-	21
Load Resistance	ohms	594.66
Comments:	-	Vancouver

Overall CEW Status:
<b>In Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	135.2	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	117.4	80	125
Main Phase Peak Current	amps	In Tolerance	3.30	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1964	1400	2520
Pulse Rate	pulses/second	In Tolerance	18.1	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 89 Pulses	Standard Deviation of 89 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	136.9	3.1	136.0	135.2	141.5	142.2	128.7
Arc Phase Net Charge	microcoulombs	9.0	0.1	9.0	8.8	9.1	9.2	8.5
Arc Phase Peak Current	amps	3.49	0.05	3.50	3.42	3.56	3.58	3.31
Main Phase Net Charge	microcoulombs	120.4	3.2	120.5	117.4	125.0	126.0	111.4
Main Phase Total Charge	microcoulombs	123.7	3.2	123.9	120.7	128.4	129.5	114.7
Main Phase Peak Current	amps	3.37	0.05	3.38	3.30	3.44	3.49	3.22
Main Phase Peak Voltage	volts	2002	30	2012	1964	2048	2076	1913
Main Phase Energy	millijoules	105.7	3.9	106.5	101.2	111.8	113.5	95.7
Full Pulse Net Charge	microcoulombs	111.4	3.1	111.6	108.6	115.9	116.9	102.6
Full Pulse Energy	millijoules	120.3	4.2	121.2	115.3	126.9	128.9	109.6
Pulse Rate	pulses/second	18.1						
Charge/Second	milliamps	2.2						
Energy/Second	watts	2.2						
Duration of Cycle	seconds	4.9081						
Total Number of Pulses	-	89						

**CEW Details**

Model Number	-	X26
Serial Number	-	X00-158136
Battery Status	percent	91
CEW Temperature	degrees Celsius	24
Software Revision	-	21
Load Resistance	ohms	594.66
Comments:	-	Vancouver

Overall CEW Status:
<b>In Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	136.0	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	118.4	80	125
Main Phase Peak Current	amps	In Tolerance	3.37	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	2002	1400	2520
Pulse Rate	pulses/second	In Tolerance	17.9	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 88 Pulses	Standard Deviation of 88 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	136.0	2.1	135.5	136.0	139.2	140.4	129.1
Arc Phase Net Charge	microcoulombs	9.0	0.3	8.9	9.1	9.7	9.9	8.5
Arc Phase Peak Current	amps	3.41	0.14	3.36	3.42	3.69	3.78	3.22
Main Phase Net Charge	microcoulombs	117.4	4.9	115.7	118.4	126.9	130.1	109.0
Main Phase Total Charge	microcoulombs	120.9	5.1	119.1	121.9	130.7	134.0	112.3
Main Phase Peak Current	amps	3.35	0.14	3.30	3.37	3.64	3.71	3.16
Main Phase Peak Voltage	volts	1990	85	1960	2002	2163	2209	1881
Main Phase Energy	millijoules	102.4	8.7	99.4	103.7	119.7	125.3	90.0
Full Pulse Net Charge	microcoulombs	108.4	4.6	106.8	109.3	117.2	120.1	100.3
Full Pulse Energy	millijoules	116.7	9.8	113.4	118.2	136.5	142.8	103.0
Pulse Rate	pulses/second	17.9						
Charge/Second	milliamps	2.1						
Energy/Second	watts	2.1						
Duration of Cycle	seconds	4.9294						
Total Number of Pulses	-	88						

**CEW Details**

Model Number	-	X26
Serial Number	-	X00-161631
Battery Status	percent	77
CEW Temperature	degrees Celsius	23
Software Revision	-	21
Load Resistance	ohms	594.66
Comments:	-	Vancouver

Overall CEW Status:
<b>Below Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	136.4	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	123.1	80	125
Main Phase Peak Current	amps	In Tolerance	3.59	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	2134	1400	2520
Pulse Rate	pulses/second	Below Tolerance	16.1	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 79 Pulses	Standard Deviation of 79 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	137.3	2.2	136.0	136.4	140.8	141.7	132.1
Arc Phase Net Charge	microcoulombs	9.6	0.1	9.4	9.5	9.8	9.9	9.3
Arc Phase Peak Current	amps	3.71	0.05	3.64	3.67	3.80	3.82	3.56
Main Phase Net Charge	microcoulombs	124.6	2.2	122.4	123.1	128.3	129.3	120.2
Main Phase Total Charge	microcoulombs	128.5	2.2	126.3	127.0	132.2	133.3	124.0
Main Phase Peak Current	amps	3.63	0.05	3.56	3.59	3.72	3.73	3.51
Main Phase Peak Voltage	volts	2156	32	2118	2134	2210	2218	2088
Main Phase Energy	millijoules	116.9	3.5	113.0	114.5	122.7	124.8	110.8
Full Pulse Net Charge	microcoulombs	115.0	2.1	113.0	113.6	118.6	119.5	110.8
Full Pulse Energy	millijoules	133.5	3.9	129.0	130.8	139.9	142.2	126.5
Pulse Rate	pulses/second	16.1						
Charge/Second	milliamps	2.0						
Energy/Second	watts	2.1						
Duration of Cycle	seconds	4.9209						
Total Number of Pulses	-	79						

**CEW Details**

Model Number	-	X26
Serial Number	-	X00-165291
Battery Status	percent	93
CEW Temperature	degrees Celsius	24
Software Revision	-	21
Load Resistance	ohms	594.66
Comments:	-	Vancouver

Overall CEW Status:
<b>In Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	131.0	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	107.2	80	125
Main Phase Peak Current	amps	In Tolerance	2.95	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1756	1400	2520
Pulse Rate	pulses/second	In Tolerance	18.6	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 92 Pulses	Standard Deviation of 92 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	131.7	3.7	132.6	131.0	137.6	140.3	119.8
Arc Phase Net Charge	microcoulombs	8.0	0.1	8.0	7.9	8.2	8.2	7.8
Arc Phase Peak Current	amps	3.09	0.04	3.08	3.07	3.17	3.19	2.99
Main Phase Net Charge	microcoulombs	109.1	2.7	109.1	107.2	113.3	114.1	99.7
Main Phase Total Charge	microcoulombs	112.0	2.8	112.1	110.1	116.4	117.1	102.6
Main Phase Peak Current	amps	2.98	0.04	2.97	2.95	3.06	3.08	2.90
Main Phase Peak Voltage	volts	1772	25	1769	1756	1820	1831	1727
Main Phase Energy	millijoules	86.0	2.8	85.7	83.8	91.0	92.1	78.1
Full Pulse Net Charge	microcoulombs	101.1	2.7	101.1	99.2	105.2	106.1	91.8
Full Pulse Energy	millijoules	97.5	3.0	97.2	95.2	103.1	104.1	89.2
Pulse Rate	pulses/second	18.6						
Charge/Second	milliamps	2.0						
Energy/Second	watts	1.8						
Duration of Cycle	seconds	4.9515						
Total Number of Pulses	-	92						



**5.9 TEST RESULTS - VICTORIA**

CEW Details

Model Number	-	X26
Serial Number	-	X00-026114
Battery Status	percent	92
CEW Temperature	degrees Celsius	22
Software Revision	-	21
Load Resistance	ohms	594.66
Comments:	-	Victoria

Overall CEW Status:
<b>In Tolerance</b>

TI CEW Operating Parameters

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	124.1	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	101.9	80	125
Main Phase Peak Current	amps	In Tolerance	3.09	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1837	1400	2520
Pulse Rate	pulses/second	In Tolerance	18.6	16.5	20.0

Supplemental Test Parameters

	Units	Average of 91 Pulses	Standard Deviation of 91 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	126.6	3.7	127.4	124.1	133.8	135.6	117.5
Arc Phase Net Charge	microcoulombs	8.4	0.1	8.3	8.4	8.7	8.9	8.1
Arc Phase Peak Current	amps	3.23	0.06	3.19	3.23	3.36	3.42	3.13
Main Phase Net Charge	microcoulombs	102.5	2.4	102.2	101.9	106.8	111.5	97.6
Main Phase Total Charge	microcoulombs	105.1	2.4	104.7	104.5	109.5	114.2	100.2
Main Phase Peak Current	amps	3.10	0.05	3.08	3.09	3.21	3.30	3.00
Main Phase Peak Voltage	volts	1841	30	1831	1837	1910	1964	1781
Main Phase Energy	millijoules	85.2	3.2	84.3	84.7	92.1	98.4	78.7
Full Pulse Net Charge	microcoulombs	94.1	2.3	93.9	93.4	98.3	102.7	89.2
Full Pulse Energy	millijoules	97.9	3.5	96.7	97.5	105.8	112.5	90.8
Pulse Rate	pulses/second	18.6						
Charge/Second	milliamps	1.9						
Energy/Second	watts	1.8						
Duration of Cycle	seconds	4.9014						
Total Number of Pulses	-	91						

**CEW Details**

Model Number	-	X26
Serial Number	-	X00-050447
Battery Status	percent	97
CEW Temperature	degrees Celsius	20
Software Revision	-	21
Load Resistance	ohms	594.66
Comments:	-	Victoria

Overall CEW Status:
<b>In Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	133.3	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	106.9	80	125
Main Phase Peak Current	amps	In Tolerance	3.10	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1845	1400	2520
Pulse Rate	pulses/second	In Tolerance	17.2	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 84 Pulses	Standard Deviation of 84 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	132.0	3.6	132.2	133.3	138.4	139.7	123.8
Arc Phase Net Charge	microcoulombs	8.4	0.1	8.3	8.4	8.6	8.7	8.1
Arc Phase Peak Current	amps	3.27	0.04	3.23	3.26	3.35	3.38	3.16
Main Phase Net Charge	microcoulombs	106.2	2.6	105.3	106.9	111.2	112.9	101.2
Main Phase Total Charge	microcoulombs	108.6	2.6	107.7	109.3	113.6	115.2	103.7
Main Phase Peak Current	amps	3.11	0.04	3.08	3.10	3.19	3.21	3.02
Main Phase Peak Voltage	volts	1849	25	1830	1845	1895	1912	1798
Main Phase Energy	millijoules	88.7	2.8	87.0	88.7	93.9	96.2	83.5
Full Pulse Net Charge	microcoulombs	97.7	2.5	97.0	98.4	102.7	104.5	92.9
Full Pulse Energy	millijoules	101.6	3.1	99.6	101.6	107.3	109.8	95.8
Pulse Rate	pulses/second	17.2						
Charge/Second	milliamps	1.8						
Energy/Second	watts	1.7						
Duration of Cycle	seconds	4.8964						
Total Number of Pulses	-	84						

**CEW Details**

Model Number	-	X26
Serial Number	-	X00-050711
Battery Status	percent	70
CEW Temperature	degrees Celsius	23
Software Revision	-	21
Load Resistance	ohms	594.66
Comments:	-	Victoria

Overall CEW Status:
<b>In Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	133.5	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	94.2	80	125
Main Phase Peak Current	amps	In Tolerance	2.72	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1619	1400	2520
Pulse Rate	pulses/second	In Tolerance	18.6	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 92 Pulses	Standard Deviation of 92 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	132.7	3.0	131.1	133.5	137.5	139.7	121.6
Arc Phase Net Charge	microcoulombs	7.5	0.2	7.4	7.3	7.8	7.9	7.2
Arc Phase Peak Current	amps	2.88	0.06	2.85	2.82	3.03	3.05	2.77
Main Phase Net Charge	microcoulombs	96.3	3.3	94.4	94.2	103.3	105.9	88.9
Main Phase Total Charge	microcoulombs	98.7	3.3	96.7	96.5	105.8	108.4	91.2
Main Phase Peak Current	amps	2.78	0.06	2.75	2.72	2.92	2.96	2.68
Main Phase Peak Voltage	volts	1652	37	1633	1619	1736	1761	1592
Main Phase Energy	millijoules	71.0	3.7	69.1	67.9	79.5	82.3	63.8
Full Pulse Net Charge	microcoulombs	88.9	3.2	87.0	86.8	95.6	98.1	81.6
Full Pulse Energy	millijoules	81.1	4.1	79.0	77.6	90.5	93.6	73.2
Pulse Rate	pulses/second	18.6						
Charge/Second	milliamps	1.8						
Energy/Second	watts	1.5						
Duration of Cycle	seconds	4.9449						
Total Number of Pulses	-	92						

**CEW Details**

Model Number	-	X26
Serial Number	-	X00-050917
Battery Status	percent	98
CEW Temperature	degrees Celsius	25
Software Revision	-	21
Load Resistance	ohms	594.66
Comments:	-	Victoria

Overall CEW Status:
<b>In Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	129.1	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	105.0	80	125
Main Phase Peak Current	amps	In Tolerance	3.14	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1869	1400	2520
Pulse Rate	pulses/second	In Tolerance	18.4	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 91 Pulses	Standard Deviation of 91 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	128.7	3.7	130.4	129.1	135.7	137.7	119.2
Arc Phase Net Charge	microcoulombs	8.4	0.1	8.4	8.5	8.7	8.8	8.1
Arc Phase Peak Current	amps	3.26	0.05	3.24	3.29	3.36	3.42	3.13
Main Phase Net Charge	microcoulombs	104.2	2.5	104.0	105.0	108.8	111.3	98.7
Main Phase Total Charge	microcoulombs	107.0	2.5	106.8	107.9	111.6	114.1	101.5
Main Phase Peak Current	amps	3.11	0.05	3.09	3.14	3.21	3.25	3.01
Main Phase Peak Voltage	volts	1851	30	1839	1869	1909	1935	1790
Main Phase Energy	millijoules	86.1	3.2	85.1	87.8	92.5	94.8	79.6
Full Pulse Net Charge	microcoulombs	95.7	2.4	95.7	96.5	100.2	102.8	90.5
Full Pulse Energy	millijoules	99.0	3.5	97.7	100.9	105.9	108.9	91.8
Pulse Rate	pulses/second	18.4						
Charge/Second	milliamps	1.9						
Energy/Second	watts	1.8						
Duration of Cycle	seconds	4.9559						
Total Number of Pulses	-	91						

**CEW Details**

Model Number	-	X26
Serial Number	-	X00-051035
Battery Status	percent	89
CEW Temperature	degrees Celsius	21
Software Revision	-	20
Load Resistance	ohms	594.66
Comments:	-	Victoria

Overall CEW Status:
<b>In Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	130.8	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	101.1	80	125
Main Phase Peak Current	amps	In Tolerance	3.02	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1796	1400	2520
Pulse Rate	pulses/second	In Tolerance	18.6	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 92 Pulses	Standard Deviation of 92 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	131.5	2.7	130.4	130.8	136.4	139.1	123.4
Arc Phase Net Charge	microcoulombs	8.3	0.2	8.2	8.0	8.6	8.7	7.9
Arc Phase Peak Current	amps	3.30	0.07	3.26	3.18	3.42	3.46	3.11
Main Phase Net Charge	microcoulombs	105.3	2.9	103.8	101.1	110.3	112.2	97.2
Main Phase Total Charge	microcoulombs	108.2	2.9	106.7	103.9	113.3	115.2	100.0
Main Phase Peak Current	amps	3.13	0.06	3.10	3.02	3.25	3.27	2.98
Main Phase Peak Voltage	volts	1863	37	1844	1796	1930	1944	1772
Main Phase Energy	millijoules	88.0	4.1	85.8	81.1	95.4	96.0	77.3
Full Pulse Net Charge	microcoulombs	97.0	2.7	95.6	93.0	101.7	103.6	89.3
Full Pulse Energy	millijoules	100.8	4.6	98.3	93.0	109.1	109.8	89.0
Pulse Rate	pulses/second	18.6						
Charge/Second	milliamps	2.0						
Energy/Second	watts	1.9						
Duration of Cycle	seconds	4.9510						
Total Number of Pulses	-	92						

**CEW Details**

Model Number	-	X26
Serial Number	-	X00-100542
Battery Status	percent	89
CEW Temperature	degrees Celsius	21
Software Revision	-	21
Load Resistance	ohms	594.66
Comments:	-	Victoria

Overall CEW Status:
<b>In Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	127.6	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	96.9	80	125
Main Phase Peak Current	amps	In Tolerance	2.94	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1750	1400	2520
Pulse Rate	pulses/second	In Tolerance	18.6	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 92 Pulses	Standard Deviation of 92 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	127.5	3.6	126.5	127.6	133.7	134.5	116.6
Arc Phase Net Charge	microcoulombs	7.8	0.2	7.8	7.8	8.2	8.4	7.4
Arc Phase Peak Current	amps	3.06	0.09	3.08	3.06	3.23	3.33	2.90
Main Phase Net Charge	microcoulombs	96.6	3.4	97.3	96.9	102.4	103.9	87.5
Main Phase Total Charge	microcoulombs	99.2	3.4	99.9	99.4	105.1	106.7	90.0
Main Phase Peak Current	amps	2.93	0.08	2.94	2.94	3.08	3.15	2.76
Main Phase Peak Voltage	volts	1741	48	1749	1750	1833	1874	1643
Main Phase Energy	millijoules	75.4	4.5	76.4	76.0	83.8	87.4	65.4
Full Pulse Net Charge	microcoulombs	88.8	3.2	89.5	89.1	94.3	95.7	80.0
Full Pulse Energy	millijoules	86.6	5.1	87.7	87.1	96.1	100.4	75.6
Pulse Rate	pulses/second	18.6						
Charge/Second	milliamps	1.8						
Energy/Second	watts	1.6						
Duration of Cycle	seconds	4.9553						
Total Number of Pulses	-	92						

**CEW Details**

Model Number	-	X26
Serial Number	-	X00-130518
Battery Status	percent	80
CEW Temperature	degrees Celsius	24
Software Revision	-	21
Load Resistance	ohms	594.66
Comments:	-	Victoria

Overall CEW Status:
<b>In Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	129.4	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	110.4	80	125
Main Phase Peak Current	amps	In Tolerance	3.20	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1903	1400	2520
Pulse Rate	pulses/second	In Tolerance	18.5	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 91 Pulses	Standard Deviation of 91 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	130.9	2.3	130.4	129.4	134.9	136.2	124.5
Arc Phase Net Charge	microcoulombs	7.8	0.2	7.7	8.2	8.2	8.4	7.4
Arc Phase Peak Current	amps	3.10	0.07	3.04	3.26	3.26	3.33	2.93
Main Phase Net Charge	microcoulombs	106.6	2.5	104.6	110.4	111.7	115.2	100.5
Main Phase Total Charge	microcoulombs	110.3	2.6	108.2	114.3	115.5	119.0	103.9
Main Phase Peak Current	amps	3.05	0.07	2.99	3.20	3.21	3.27	2.90
Main Phase Peak Voltage	volts	1812	42	1780	1903	1908	1944	1724
Main Phase Energy	millijoules	84.4	4.0	81.1	92.8	93.2	97.1	75.6
Full Pulse Net Charge	microcoulombs	98.9	2.4	97.0	102.3	103.6	107.0	93.0
Full Pulse Energy	millijoules	95.7	4.5	92.1	105.2	105.7	109.5	85.9
Pulse Rate	pulses/second	18.5						
Charge/Second	milliamps	2.0						
Energy/Second	watts	1.8						
Duration of Cycle	seconds	4.9186						
Total Number of Pulses	-	91						

**5.10 TEST RESULTS - WESTMINSTER**

CEW Details

Model Number	-	X26
Serial Number	-	X00-003947
Battery Status	percent	87
CEW Temperature	degrees Celsius	17
Software Revision	-	15
Load Resistance	ohms	594.66
Comments:	-	Westminster

Overall CEW Status:
<b>In Tolerance</b>

TI CEW Operating Parameters

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	131.7	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	100.9	80	125
Main Phase Peak Current	amps	In Tolerance	3.11	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1851	1400	2520
Pulse Rate	pulses/second	In Tolerance	18.6	16.5	20.0

Supplemental Test Parameters

	Units	Average of 92 Pulses	Standard Deviation of 92 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	131.0	2.2	131.7	131.7	134.5	136.1	121.9
Arc Phase Net Charge	microcoulombs	8.5	0.1	8.6	8.5	8.8	9.4	8.3
Arc Phase Peak Current	amps	3.22	0.05	3.26	3.23	3.32	3.58	3.14
Main Phase Net Charge	microcoulombs	100.2	2.4	101.8	100.9	105.3	113.5	95.2
Main Phase Total Charge	microcoulombs	103.0	2.4	104.6	103.7	108.1	116.5	98.0
Main Phase Peak Current	amps	3.10	0.05	3.14	3.11	3.21	3.47	3.01
Main Phase Peak Voltage	volts	1843	31	1865	1851	1906	2061	1792
Main Phase Energy	millijoules	80.6	3.2	83.1	81.3	87.2	102.9	75.9
Full Pulse Net Charge	microcoulombs	91.7	2.3	93.2	92.4	96.6	104.1	86.7
Full Pulse Energy	millijoules	93.3	3.6	96.1	94.2	100.7	118.6	88.1
Pulse Rate	pulses/second	18.6						
Charge/Second	milliamps	1.9						
Energy/Second	watts	1.7						
Duration of Cycle	seconds	4.9381						
Total Number of Pulses	-	92						



**CEW Details**

Model Number	-	X26
Serial Number	-	X00-047002
Battery Status	percent	61
CEW Temperature	degrees Celsius	25
Software Revision	-	21
Load Resistance	ohms	594.66
Comments:	-	Westminster

Overall CEW Status:
<b>In Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	128.6	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	99.2	80	125
Main Phase Peak Current	amps	In Tolerance	2.84	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1686	1400	2520
Pulse Rate	pulses/second	In Tolerance	17.4	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 86 Pulses	Standard Deviation of 86 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	128.8	4.5	129.7	128.6	134.4	134.9	119.6
Arc Phase Net Charge	microcoulombs	7.3	0.2	7.5	7.4	7.7	7.8	7.1
Arc Phase Peak Current	amps	3.00	0.07	3.07	3.04	3.15	3.18	2.88
Main Phase Net Charge	microcoulombs	98.6	3.0	101.3	99.2	103.3	104.2	92.5
Main Phase Total Charge	microcoulombs	100.6	3.0	103.3	101.2	105.3	106.3	94.4
Main Phase Peak Current	amps	2.80	0.06	2.86	2.84	2.93	2.97	2.70
Main Phase Peak Voltage	volts	1664	38	1702	1686	1744	1766	1605
Main Phase Energy	millijoules	75.4	3.5	79.0	77.0	82.4	84.4	69.0
Full Pulse Net Charge	microcoulombs	91.3	2.9	93.8	91.8	95.8	96.6	85.3
Full Pulse Energy	millijoules	85.7	3.9	89.7	87.6	93.6	96.0	78.5
Pulse Rate	pulses/second	17.4						
Charge/Second	milliamps	1.7						
Energy/Second	watts	1.5						
Duration of Cycle	seconds	4.9409						
Total Number of Pulses	-	86						

**CEW Details**

Model Number	-	X26
Serial Number	-	X00-118934
Battery Status	percent	68
CEW Temperature	degrees Celsius	21
Software Revision	-	15
Load Resistance	ohms	594.66
Comments:	-	Westminster

Overall CEW Status:
<b>In Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	132.1	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	100.8	80	125
Main Phase Peak Current	amps	In Tolerance	3.01	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1791	1400	2520
Pulse Rate	pulses/second	In Tolerance	18.6	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 92 Pulses	Standard Deviation of 92 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	133.2	4.5	132.5	132.1	139.3	140.3	121.4
Arc Phase Net Charge	microcoulombs	8.2	0.1	8.2	8.0	8.5	8.7	7.9
Arc Phase Peak Current	amps	3.17	0.06	3.17	3.08	3.31	3.38	3.04
Main Phase Net Charge	microcoulombs	104.2	3.3	104.5	100.8	110.5	112.6	96.8
Main Phase Total Charge	microcoulombs	107.3	3.4	107.5	103.7	113.6	115.7	99.8
Main Phase Peak Current	amps	3.09	0.06	3.08	3.01	3.22	3.28	2.96
Main Phase Peak Voltage	volts	1838	34	1834	1791	1914	1953	1759
Main Phase Energy	millijoules	84.5	3.7	84.4	79.7	92.6	96.7	75.8
Full Pulse Net Charge	microcoulombs	96.1	3.3	96.3	92.8	102.1	104.2	89.0
Full Pulse Energy	millijoules	96.7	4.1	96.4	91.2	105.7	110.5	87.0
Pulse Rate	pulses/second	18.6						
Charge/Second	milliamps	1.9						
Energy/Second	watts	1.8						
Duration of Cycle	seconds	4.9462						
Total Number of Pulses	-	92						

**CEW Details**

Model Number	-	X26
Serial Number	-	X00-168793
Battery Status	percent	59
CEW Temperature	degrees Celsius	23
Software Revision	-	15
Load Resistance	ohms	594.66
Comments:	-	Westminster

Overall CEW Status:
<b>In Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	134.8	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	121.2	80	125
Main Phase Peak Current	amps	In Tolerance	3.45	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	2051	1400	2520
Pulse Rate	pulses/second	In Tolerance	18.5	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 91 Pulses	Standard Deviation of 91 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	132.5	2.1	130.9	134.8	136.0	138.5	127.5
Arc Phase Net Charge	microcoulombs	9.2	0.1	9.1	9.4	9.5	9.7	9.0
Arc Phase Peak Current	amps	3.47	0.06	3.41	3.54	3.60	3.65	3.36
Main Phase Net Charge	microcoulombs	118.6	2.4	116.9	121.2	123.6	125.5	113.2
Main Phase Total Charge	microcoulombs	122.0	2.4	120.3	124.7	127.2	129.0	116.6
Main Phase Peak Current	amps	3.38	0.05	3.33	3.45	3.51	3.54	3.28
Main Phase Peak Voltage	volts	2008	33	1982	2051	2088	2108	1953
Main Phase Energy	millijoules	105.1	3.7	102.2	109.3	113.6	117.1	100.1
Full Pulse Net Charge	microcoulombs	109.4	2.3	107.8	111.8	114.1	115.9	104.0
Full Pulse Energy	millijoules	120.0	4.1	116.7	124.9	129.7	133.3	114.6
Pulse Rate	pulses/second	18.5						
Charge/Second	milliamps	2.2						
Energy/Second	watts	2.2						
Duration of Cycle	seconds	4.9301						
Total Number of Pulses	-	91						

**CEW Details**

Model Number	-	X26
Serial Number	-	X00-168973
Battery Status	percent	86
CEW Temperature	degrees Celsius	22
Software Revision	-	21
Load Resistance	ohms	594.66
Comments:	-	Westminster

Overall CEW Status:
<b>In Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	133.1	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	122.2	80	125
Main Phase Peak Current	amps	In Tolerance	3.45	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	2049	1400	2520
Pulse Rate	pulses/second	In Tolerance	18.4	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 90 Pulses	Standard Deviation of 90 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	133.7	2.7	134.2	133.1	138.2	139.2	126.9
Arc Phase Net Charge	microcoulombs	8.9	0.2	8.6	9.2	9.3	9.4	8.5
Arc Phase Peak Current	amps	3.45	0.09	3.34	3.57	3.61	3.63	3.26
Main Phase Net Charge	microcoulombs	118.5	3.6	114.6	122.2	124.3	127.4	109.2
Main Phase Total Charge	microcoulombs	122.1	3.6	118.1	126.0	128.1	131.2	112.7
Main Phase Peak Current	amps	3.33	0.08	3.22	3.45	3.48	3.54	3.13
Main Phase Peak Voltage	volts	1981	49	1913	2049	2070	2102	1862
Main Phase Energy	millijoules	103.6	5.7	96.1	111.0	113.5	118.1	91.3
Full Pulse Net Charge	microcoulombs	109.5	3.4	105.9	113.0	115.1	118.1	100.5
Full Pulse Energy	millijoules	118.0	6.3	109.6	126.4	129.2	133.9	104.3
Pulse Rate	pulses/second	18.4						
Charge/Second	milliamps	2.2						
Energy/Second	watts	2.2						
Duration of Cycle	seconds	4.9013						
Total Number of Pulses	-	90						

**CEW Details**

Model Number	-	X26
Serial Number	-	X00-115817
Battery Status	percent	66
CEW Temperature	degrees Celsius	25
Software Revision	-	20
Load Resistance	ohms	594.66
Comments:	-	

Overall CEW Status:
<b>Below Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	135.8	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	118.6	80	125
Main Phase Peak Current	amps	In Tolerance	3.63	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	2161	1400	2520
Pulse Rate	pulses/second	Below Tolerance	13.5	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 66 Pulses	Standard Deviation of 66 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	137.2	2.2	136.4	135.8	140.5	141.4	131.3
Arc Phase Net Charge	microcoulombs	10.0	0.3	10.1	9.6	10.6	10.8	9.3
Arc Phase Peak Current	amps	3.86	0.13	3.90	3.68	4.11	4.23	3.60
Main Phase Net Charge	microcoulombs	123.2	4.1	122.6	118.6	130.2	133.4	115.4
Main Phase Total Charge	microcoulombs	127.1	4.2	126.4	122.3	134.2	137.5	119.0
Main Phase Peak Current	amps	3.81	0.13	3.84	3.63	4.05	4.16	3.56
Main Phase Peak Voltage	volts	2265	75	2284	2161	2407	2475	2119
Main Phase Energy	millijoules	122.0	8.1	123.0	111.4	137.5	144.6	106.6
Full Pulse Net Charge	microcoulombs	113.2	3.9	112.5	109.1	119.7	122.8	106.0
Full Pulse Energy	millijoules	140.0	9.2	141.3	127.8	157.7	166.0	122.4
Pulse Rate	pulses/second	13.5						
Charge/Second	milliamps	1.7						
Energy/Second	watts	1.9						
Duration of Cycle	seconds	4.8959						
Total Number of Pulses	-	66						

## 6 TEST RESULTS - ABNORMAL CEWS

### 6.1 TEST RESULTS - BC CORRECTIONS

#### 6.1.1 Serial Number X00-033602

CEW Serial Number X00-033602 exhibited abnormal behaviour during the initial trigger pull (spark test).

During the 1st trigger pull the CEW generated only 38 pulses before the 5-second cycle expired. The 3<sup>rd</sup> trigger pull generated 35 pulses.

The battery was then replaced with the battery from X00-030047 and the CEW re-tested. Trigger pulls 4 and 6 generated similar results and X00-033602 was deemed to be defective.

For the purposes of this report compliance has been determined based on the 3<sup>rd</sup> trigger pull. Support data for the 1<sup>st</sup>, 3<sup>rd</sup>, 4<sup>th</sup> and 6<sup>th</sup> trigger pulls is provided below.

**CEW Details**

Model Number	-	X26
Serial Number	-	X00-033602
Battery Status	percent	86
CEW Temperature	degrees Celsius	19
Software Revision	-	15
Load Resistance	ohms	594.66
Comments:	-	1 <sup>st</sup> Trigger Pull

Overall CEW Status:
<b>Below Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	133.2	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	106.6	80	125
Main Phase Peak Current	amps	In Tolerance	3.09	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1837	1400	2520
Pulse Rate	pulses/second	Below Tolerance	8.4	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 38 Pulses	Standard Deviation of 38 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	135.2	3.9	138.5	133.2	140.1	152.8	128.2
Arc Phase Net Charge	microcoulombs	8.4	0.7	8.7	8.3	9.0	12.2	8.0
Arc Phase Peak Current	amps	3.27	0.29	3.43	3.22	3.53	5.01	3.10
Main Phase Net Charge	microcoulombs	108.9	9.9	114.4	106.6	118.1	166.1	101.1
Main Phase Total Charge	microcoulombs	111.5	10.1	117.2	109.2	120.8	169.9	103.7
Main Phase Peak Current	amps	3.14	0.29	3.29	3.09	3.39	4.83	2.97
Main Phase Peak Voltage	volts	1868	171	1956	1837	2014	2875	1764
Main Phase Energy	millijoules	93.1	20.7	104.2	89.1	110.4	215.3	81.8
Full Pulse Net Charge	microcoulombs	100.5	9.3	105.7	98.3	109.2	153.9	93.1
Full Pulse Energy	millijoules	106.0	23.3	118.5	101.5	125.3	243.7	93.4
Pulse Rate	pulses/second	8.4						
Charge/Second	milliamps	0.9						
Energy/Second	watts	0.9						
Duration of Cycle	seconds	4.5399						
Total Number of Pulses	-	38						

**CEW Details**

Model Number	-	X26
Serial Number	-	X00-033602
Battery Status	percent	86
CEW Temperature	degrees Celsius	19
Software Revision	-	15
Load Resistance	ohms	594.66
Comments:	-	3 <sup>rd</sup> Trigger Pull

Overall CEW Status:
<b>Below Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	134.6	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	103.3	80	125
Main Phase Peak Current	amps	In Tolerance	2.98	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1769	1400	2520
Pulse Rate	pulses/second	Below Tolerance	7.3	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 35 Pulses	Standard Deviation of 35 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	133.1	2.8	132.9	134.6	137.0	140.2	128.1
Arc Phase Net Charge	microcoulombs	8.1	0.2	8.2	7.9	8.3	8.4	7.7
Arc Phase Peak Current	amps	3.16	0.06	3.21	3.08	3.23	3.27	3.04
Main Phase Net Charge	microcoulombs	105.1	2.7	106.4	103.3	108.8	110.4	99.7
Main Phase Total Charge	microcoulombs	107.6	2.8	108.9	105.8	111.3	112.8	102.1
Main Phase Peak Current	amps	3.04	0.06	3.08	2.98	3.11	3.14	2.93
Main Phase Peak Voltage	volts	1807	34	1830	1769	1849	1868	1741
Main Phase Energy	millijoules	86.2	3.8	88.6	82.3	91.0	93.3	78.6
Full Pulse Net Charge	microcoulombs	97.0	2.6	98.1	95.4	100.5	102.1	91.8
Full Pulse Energy	millijoules	98.2	4.2	100.9	93.7	103.4	105.7	89.8
Pulse Rate	pulses/second	7.3						
Charge/Second	milliamps	0.8						
Energy/Second	watts	0.7						
Duration of Cycle	seconds	4.7727						
Total Number of Pulses	-	35						



**CEW Details**

Model Number	-	X26
Serial Number	-	X00-033602
Battery Status	percent	78
CEW Temperature	degrees Celsius	23
Software Revision	-	20
Load Resistance	ohms	594.66
Comments:	-	4 <sup>th</sup> Trigger Pull

Overall CEW Status:
<b>Below Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	131.8	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	103.2	80	125
Main Phase Peak Current	amps	In Tolerance	2.98	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1775	1400	2520
Pulse Rate	pulses/second	Below Tolerance	6.3	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 29 Pulses	Standard Deviation of 29 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	131.1	2.2	130.3	131.8	133.5	134.8	126.2
Arc Phase Net Charge	microcoulombs	7.9	0.2	7.7	8.1	8.1	8.2	7.6
Arc Phase Peak Current	amps	3.07	0.06	3.02	3.13	3.15	3.18	2.96
Main Phase Net Charge	microcoulombs	100.8	2.4	99.5	103.2	103.9	105.1	97.5
Main Phase Total Charge	microcoulombs	103.3	2.5	101.9	105.8	106.5	107.6	100.0
Main Phase Peak Current	amps	2.94	0.05	2.91	2.98	3.00	3.03	2.86
Main Phase Peak Voltage	volts	1746	29	1729	1775	1783	1799	1700
Main Phase Energy	millijoules	79.9	3.1	78.0	83.2	83.9	85.3	75.3
Full Pulse Net Charge	microcoulombs	92.9	2.3	91.7	95.1	95.9	97.2	89.6
Full Pulse Energy	millijoules	91.2	3.5	88.9	94.9	95.7	97.3	86.3
Pulse Rate	pulses/second	6.3						
Charge/Second	milliamps	0.6						
Energy/Second	watts	0.6						
Duration of Cycle	seconds	4.6288						
Total Number of Pulses	-	29						

**CEW Details**

Model Number	-	X26
Serial Number	-	X00-033602
Battery Status	percent	78
CEW Temperature	degrees Celsius	23
Software Revision	-	20
Load Resistance	ohms	594.66
Comments:	-	6 <sup>th</sup> Trigger Pull

Overall CEW Status:
<b>Below Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	133.1	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	105.2	80	125
Main Phase Peak Current	amps	In Tolerance	3.04	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1808	1400	2520
Pulse Rate	pulses/second	Below Tolerance	5.5	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 25 Pulses	Standard Deviation of 25 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	132.2	2.3	131.7	133.1	134.9	137.0	128.0
Arc Phase Net Charge	microcoulombs	8.1	0.2	8.0	8.1	8.3	8.4	7.8
Arc Phase Peak Current	amps	3.15	0.05	3.14	3.16	3.21	3.25	3.05
Main Phase Net Charge	microcoulombs	104.6	2.4	103.8	105.2	107.4	109.5	101.0
Main Phase Total Charge	microcoulombs	107.1	2.5	106.3	107.7	109.9	112.0	103.4
Main Phase Peak Current	amps	3.03	0.05	3.02	3.04	3.09	3.11	2.96
Main Phase Peak Voltage	volts	1804	29	1794	1808	1839	1852	1761
Main Phase Energy	millijoules	85.7	3.1	84.6	86.2	89.3	90.8	80.6
Full Pulse Net Charge	microcoulombs	96.5	2.4	95.8	97.1	99.2	101.3	93.0
Full Pulse Energy	millijoules	97.6	3.5	96.4	98.2	101.6	103.0	92.0
Pulse Rate	pulses/second	5.5						
Charge/Second	milliamps	0.6						
Energy/Second	watts	0.5						
Duration of Cycle	seconds	4.5139						
Total Number of Pulses	-	25						

### **6.1.2 Serial Number X00-033616**

CEW Serial Number X00-033616 exhibited abnormal behaviour during the initial trigger pull (spark test).

During the 1<sup>st</sup> trigger pull the CEW generated only 12 pulses before the 5-second cycle expired. The 3<sup>rd</sup> trigger pull generated 61 pulses. Trigger pulls 4 and 6 generated similar results.

For the purposes of this report compliance has been determined based on the 3<sup>rd</sup> trigger pull. Support data for the 1<sup>st</sup>, 3<sup>rd</sup>, 4<sup>th</sup> and 6<sup>th</sup> trigger pulls is provided below.

**CEW Details**

Model Number	-	X26
Serial Number	-	X00-033616
Battery Status	percent	27
CEW Temperature	degrees Celsius	18
Software Revision	-	20
Load Resistance	ohms	594.66
Comments:	-	1 <sup>st</sup> Trigger Pull

Overall CEW Status:
<b>Below Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	128.8	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	100.1	80	125
Main Phase Peak Current	amps	In Tolerance	2.93	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1744	1400	2520
Pulse Rate	pulses/second	Below Tolerance	10.6	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 11 Pulses	Standard Deviation of 11 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	131.7	7.7	131.7	128.8	134.7	149.0	122.4
Arc Phase Net Charge	microcoulombs	8.4	1.3	8.7	7.9	8.7	12.3	7.8
Arc Phase Peak Current	amps	3.34	0.56	3.44	3.13	3.44	5.01	3.06
Main Phase Net Charge	microcoulombs	106.3	15.9	108.6	100.1	109.7	152.9	95.6
Main Phase Total Charge	microcoulombs	108.6	16.4	111.0	102.3	112.1	156.6	97.7
Main Phase Peak Current	amps	3.13	0.52	3.22	2.93	3.22	4.67	2.86
Main Phase Peak Voltage	volts	1860	309	1913	1744	1914	2777	1703
Main Phase Energy	millijoules	91.0	31.4	96.0	79.3	96.4	184.4	75.2
Full Pulse Net Charge	microcoulombs	97.9	14.7	99.9	92.2	101.1	140.6	87.8
Full Pulse Energy	millijoules	104.4	36.5	110.3	90.9	110.7	213.0	86.4
Pulse Rate	pulses/second	10.6						
Charge/Second	milliamps	1.1						
Energy/Second	watts	1.1						
Duration of Cycle	seconds	1.0380						
Total Number of Pulses	-	11						

**CEW Details**

Model Number	-	X26
Serial Number	-	X00-033616
Battery Status	percent	27
CEW Temperature	degrees Celsius	18
Software Revision	-	20
Load Resistance	ohms	594.66
Comments:	-	3 <sup>rd</sup> Trigger Pull

Overall CEW Status:
<b>Below Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	133.7	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	104.8	80	125
Main Phase Peak Current	amps	In Tolerance	3.03	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1800	1400	2520
Pulse Rate	pulses/second	Below Tolerance	12.3	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 60 Pulses	Standard Deviation of 60 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	131.8	3.8	131.6	133.7	137.4	139.4	121.1
Arc Phase Net Charge	microcoulombs	8.1	0.2	8.3	8.1	8.5	8.5	7.8
Arc Phase Peak Current	amps	3.21	0.07	3.26	3.21	3.32	3.36	3.08
Main Phase Net Charge	microcoulombs	104.2	3.3	105.8	104.8	109.9	110.8	97.7
Main Phase Total Charge	microcoulombs	106.5	3.3	108.1	107.0	112.3	113.2	100.0
Main Phase Peak Current	amps	3.03	0.07	3.07	3.03	3.14	3.17	2.92
Main Phase Peak Voltage	volts	1802	39	1825	1800	1867	1887	1735
Main Phase Energy	millijoules	84.7	4.1	87.4	84.4	91.8	94.5	78.4
Full Pulse Net Charge	microcoulombs	96.1	3.2	97.6	96.6	101.5	102.4	89.5
Full Pulse Energy	millijoules	96.9	4.6	100.0	96.6	104.8	107.7	89.9
Pulse Rate	pulses/second	12.3						
Charge/Second	milliamps	1.3						
Energy/Second	watts	1.2						
Duration of Cycle	seconds	4.8957						
Total Number of Pulses	-	60						

**CEW Details**

Model Number	-	X26
Serial Number	-	X00-033616
Battery Status	percent	27
CEW Temperature	degrees Celsius	18
Software Revision	-	20
Load Resistance	ohms	594.66
Comments:	-	4 <sup>th</sup> Trigger Pull

Overall CEW Status:
<b>Below Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	129.7	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	102.7	80	125
Main Phase Peak Current	amps	In Tolerance	3.02	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1795	1400	2520
Pulse Rate	pulses/second	Below Tolerance	12.8	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 62 Pulses	Standard Deviation of 62 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	132.3	3.5	134.8	129.7	136.8	137.8	123.6
Arc Phase Net Charge	microcoulombs	8.2	0.2	8.0	8.0	8.6	8.7	7.8
Arc Phase Peak Current	amps	3.22	0.09	3.15	3.18	3.39	3.45	3.08
Main Phase Net Charge	microcoulombs	104.9	3.3	103.5	102.7	110.5	113.4	97.0
Main Phase Total Charge	microcoulombs	107.2	3.3	105.7	104.9	112.9	115.9	99.2
Main Phase Peak Current	amps	3.05	0.08	2.98	3.02	3.19	3.26	2.93
Main Phase Peak Voltage	volts	1812	45	1772	1795	1898	1940	1740
Main Phase Energy	millijoules	85.6	4.6	81.9	83.3	94.3	99.4	77.3
Full Pulse Net Charge	microcoulombs	96.7	3.1	95.5	94.6	102.0	104.7	89.1
Full Pulse Energy	millijoules	97.8	5.2	93.7	95.2	107.8	113.4	88.9
Pulse Rate	pulses/second	12.8						
Charge/Second	milliamps	1.3						
Energy/Second	watts	1.2						
Duration of Cycle	seconds	4.8583						
Total Number of Pulses	-	62						

**CEW Details**

Model Number	-	X26
Serial Number	-	X00-033616
Battery Status	percent	27
CEW Temperature	degrees Celsius	18
Software Revision	-	20
Load Resistance	ohms	594.66
Comments:	-	6 <sup>th</sup> Trigger Pull

Overall CEW Status:
<b>Below Tolerance</b>

**TI CEW Operating Parameters**

	Units	Compliance as Found	Value	Limit Minimum	Limit Maximum
Pulse Duration	microseconds	In Tolerance	131.8	105	155
Main Phase Net Charge	microcoulombs	In Tolerance	102.7	80	125
Main Phase Peak Current	amps	In Tolerance	2.98	2.3	4.2
Main Phase Peak Voltage	volts	In Tolerance	1775	1400	2520
Pulse Rate	pulses/second	Below Tolerance	13.6	16.5	20.0

**Supplemental Test Parameters**

	Units	Average of 66 Pulses	Standard Deviation of 66 Pulses	Average of First 8 Pulses	Average of Last 8 Pulses	Average of 8 Max Values	Maximum Pulse	Minimum Pulse
Pulse Duration	microseconds	131.8	3.8	130.7	131.8	137.0	139.8	121.3
Arc Phase Net Charge	microcoulombs	8.1	0.1	8.2	8.0	8.3	8.4	7.8
Arc Phase Peak Current	amps	3.20	0.05	3.22	3.16	3.28	3.32	3.08
Main Phase Net Charge	microcoulombs	104.1	2.6	104.8	102.7	108.2	108.9	98.0
Main Phase Total Charge	microcoulombs	106.3	2.6	107.0	104.9	110.5	111.2	100.4
Main Phase Peak Current	amps	3.02	0.04	3.06	2.98	3.09	3.12	2.91
Main Phase Peak Voltage	volts	1797	27	1820	1775	1839	1857	1729
Main Phase Energy	millijoules	84.0	2.8	86.0	81.9	88.3	89.6	76.7
Full Pulse Net Charge	microcoulombs	96.0	2.5	96.6	94.6	100.1	100.8	89.9
Full Pulse Energy	millijoules	96.1	3.1	98.2	93.7	100.8	102.5	88.0
Pulse Rate	pulses/second	13.6						
Charge/Second	milliamps	1.4						
Energy/Second	watts	1.3						
Duration of Cycle	seconds	4.8627						
Total Number of Pulses	-	66						

**7 TEST EQUIPMENT**

Asset #	Device	Characteristics	Manufacturer	Model	Serial #	Cal Date	Cal Due
552	DAQ System	X26 Test Stand	MPB	ETCX26	1	14-Jan-09	14-Jan-10
1415	Power Supply	0-150VDC 0-12A	Sorensen	DCRB150-12	0519	Monitored	Monitored
2399	Meter, Temp & Humidity		Extech	HT2106 5101	A962100	Monitored	Monitored
2532	Power Supply	0-15VDC 0-20 A	Xantrex	HPD 15-20	780	Monitored	Monitored
4516	Multimeter	300V 3A, 2 or 4 wire	Hewlett Packard	3478A	2301A19180	23-Dec-08	23-Dec-10
5630	Multimeter, Digital	High Accuracy to 0.025%	B&K	5360	70607076	22-Dec-08	22-Dec-09
5659	Power Supply	0-20VDC 0-1.2 A	Lambda	LP411	2929	Monitored	Monitored
5727	Transformer, Isolation	100VA 115V 50/60H	Hammond	171E		Monitored	Monitored
5901	Meter, K / J Thermometer		Fluke	51	72700114	Monitored	Monitored