Ti Thermal Imaging LTD

Unit 8, Weybridge Business Centre, 66 York Road, Weybridge, Surrey, KT13 9DY

Tel: 0845 458 6315 Fax: 0871 9004978 E-mail: info@thermalimaging.co.uk Web: www.thermalimaging.co.uk

RISK MANAGEMENT SOLAR PANEL THERMOGRAPHIC INSPECTION FOR:

SAMPLE 2

LOCATION:

DATE:

14/09/12

TI JOB NO.

TI-16078

Ti Thermal Imaging LTD

Unit 8, Weybridge Business Centre, 66 York Road, Weybridge, Surrey, KT13 9DY

Tel: 0845 458 6315 Fax: 0871 9004978 E-mail: info@thermalimaging.co.uk Web: www.thermalimaging.co.uk

Introduction to your Ti Thermal Imaging LTD risk management thermographic inspection

This solar panel visual and thermographic inspection has been carried out using a Flir P/T-series camera with data input onto a purpose built tablet PC platform for instantaneous results and report generation. A Webmanager houses all data that is permanently accessible over the internet allowing the user to track and monitor problems and their repair status.

Solar Panels should register an even temperature across their entire surface. Areas with an elevated temperature can equate to faulty cells because their energy is not being converted and sent to the inverters correctly and therefore it is often released as heat. This enables the identity of faulty panels to be found and pinpointed quickly using an infrared camera. The survey can be carried out in all conditions although for best results a sunny clear day enables easier image interpretation. Clouds can manifest themselves as areas of elevated temperature so it is important for correct image interpretation to be executed.

This is a guide which should help you to fully understand how the inspection was performed and how the results were achieved

- The framework to this inspection can either be generated onsite during the inspection, building the list during the survey or a list exported to MS Excel can be imported into the tablet PC to provide comprehensive information such as item locations, tag numbers, work orders etc.
- Images are captured of all online items and a record is kept of temperature data to enable a trending programme to begin. Subsequent inspections will see the addition of a new image for each inspection so that temperatures can be monitored.
- Baseline images and anomalous pieces of equipment have been recorded as one of three types of inspection:
    - T/D Electrical – This covers transmission, distribution and instrumentation
    - Mechanical – This covers all mechanical/moving/rotary equipment
    - Visual – This covers all visual findings only
- All component baseline images are taken under normal load conditions.
- Panels have been removed where safe and possible to do so and where covered by the Permit To Work system. In addition load readings have been captured using a clamp meter only where covered by the Permit to Work system and where safe to do so. In some cases load readings have not been taken so these are left as blank intentionally so that the normalised graph will function correctly. If a 0 value is inserted then a fictitious reading will be obtained. An explanation of the Normalization graph is listed later.
- A complete inventory will be built of the equipment giving Test Status at the time of the inspection allowing transparency to the inspection and what occurred with each piece of equipment. These Test Status include:

TBT	To Be Tested	These appear in bold on the thermographers tablet to identify which items are still to be tested
TESTED	TESTED	Marked as Tested once images and faults have been documented
NTLO	Not Tested Locked Out	Selected if the item could not be opened safely
NTNL	Not Tested No Load	Selected if the item was offline at the time of inspection and could not be started
NTNA	Not Tested Not Available	Selected if the item is no longer available
NTNS	Not Tested Not Specified	Selected if an item is found to be unspecified
NTUR	Not Tested Under Repair	Selected if an item is currently under a repair procedure
NSFI	Not Scheduled For Inspection	Selected if an item is not due or needed to be tested
NTTC	Not Tested Time Constraint	Selected if the inspection has not been allocated enough time or access problems have cause it to overrun.

- Each piece of equipment has been allocated a priority to operation taken from the following non-changeable list:

CTO	Critical To Operation
ETO	Essential to Operation
NON	Non-Essential To Operation
UNC	Unclassified

- Emissivity is the value in which an object emits it's infra-red radiation and is also directly proportional to it's reflectivity. For example if an item had 0.9 emissivity then it's reflectivity would be 0.1. This inspection uses an emissivity set to 0.96 because this value is found to be suitable when assessing the temperatures of most electrical components due to them usually being housed in plastic or rubber which has a similar emissivity value. Emissivity is only changed were absolutely necessary. An example of this would be copper busbar with no electrical tape/labels attached.
- Anomalous components are assessed in one of two ways.

1. With the use of Reference components operating under similar conditions: These would include using line/load sides or different phases with similar load patterns to compare an anomalous component with another which has a more normal temperature gradient.
2. The use of load correction formulas which results in the following value:
   - Estimated fault component temp at full load (°C) – This estimates the temperature that the component would be running at if it was loaded at 100%. This value has been arrived at using a formula correction using anomalous and ambient temperatures, measured and maximum load.

- The value of 75°C has been taken from the British Standard BS7671 (*.*). This value is the recommended cable temperatures of between 65-85C at full load.
- Using this value it is possible to use a fault rating system to grade the severity of the fault. The following fault ratings and colour coding have been used:

Fault Ratings	minor	Important	Serious	Critical
Temp above ref temp or above 75°C	0-7	8-15	16-32	33+

- This value of 75°C is also used as a threshold temperature for the captured baseline images. In certain circumstances, this value has either been increased to 100°C or decreased to 50°C. The value has been increased to 100°C where the thermographer deems this a more appropriate value due to an elevated cubicle ambient or where components are tightly arranged together causing uplift in operating temperature. The value has been decreased to 50°C where the thermographer deems this a more appropriate value due to panel covers not being able to be removed and only the surface of the component can be seen and not the actual connections. In certain circumstances where SP2 Reference temperature cannot be suitably obtained, the value has been set from the BS Ref of 75°C as the SP2 reference temp.
- The normalization graph simulates temperature at 0, 50% and 100% load and is designed to assist the prediction of component operating temperature where a reference component has been used. According to Ohms law $P=I^2R$ but the graph is designed as a quick glance tool to assist in viewing the potential that a problem may become.
- Where anomalous components are found, a knowledge base library is used to house specific statements that ensure synergy between inspections for faults, root causes and recommended remedial actions.
- **Formulas:**

Normalization Graph	$P=I^2R$ where P=Power, I=Current, R=Resistance
T load corrected	Let (Tm – Tamb) = Trise ; I meas / I full = LF (Load factor) Then: Tcorr = (((1/ LF)^1.68+(1/ LF)^1.46)/2)*Trise + Tamb

Ti Thermal Imaging LTD

Unit 8, Weybridge Business Centre, 66 York Road, Weybridge, Surrey, KT13 9DY

Tel: 0845 458 6315 Fax: 0871 9004978 E-mail: info@thermalimaging.co.uk Web: www.thermalimaging.co.uk

Report pages:
The combined report contains the following pages:
NB Page numbers have been left in for additional ID purposes. Page numbers run in sequence beginning at #1 for each section but do not run in sequence for the whole combined report.

1. Cover Page for TD Electrical: This is a summary report which offers the amount of problems found and their severity grade. It is for a complete site overview.
2. List of all open problems: This is the full list of equipment found with problems and includes their locations and tag numbers
3. Inspection Inventory: This is a full inventory of equipment inspected, their ID numbers and their test status.
4. Documentation pages: These pages include the details of all anomalies found for individual pieces of equipment.
5. Cost Benefit Analysis: This lists the possible cost benefits of finding the faults before they have failed and estimates how much cost has been saved by predicting a failure before it happens. These values are deliberately very conservative and loss of production has not been taken into account.

The Webmanager contains all of the above reports and lists problems, cost benefits and baseline trends in easy to source locations. To view your current and previous inspections, please logon to your personal Webmanager using your username and password already supplied. If you do not have this please contact Ti on 0845 4586315.

http://193.228.155.40/inspectrend or www.thermalimaging.co.uk then 'Login to Webmanager' tab

Webmanager tutorial snapshot:

Navigate to the area you need using one of the 6 tabs at the top of the screen:

REP'S/ELECTRICIANS ENTER CORRECTIVE WORKORDERS INTO WEBMANAGER HERE →	**Overview**	Summary listing all problems active or closed with severity grade.
	Inspection	Select site and then hit search to reveal historical list of inspections. Select 'more' next to the inspection that you want to see further details of. At the bottom is a 'reports' button that highlights in red, hit this to reveal a list of your reports. **Your combined report will be prefixed by 1_ to ensure it the very first report.**
	Inventory	Select site and then hit search to reveal a full inventory of surveyed equipment, test status, priority to site operation and last inspected date.
	Problems	Select site and then hit search to reveal a list of all open/closed problems found with severity grade, repair status and date found. Attach a work order here for remedial action and view the problem in its own individual report page.
	Cost Benefit	Select site and then hit search to reveal the savings you have made by having this inspection carried out. Typical ratio is spend £1 and save £4.
	Baseline	Select site and then hit search to reveal baseline trend data for all equipment surveyed. Here you can view individual trend reports for each piece of equipment where the latest IR/DC images are displayed with a historical temperature graph for baseline temp/current insp. Temp and threshold temp.

Ti Thermal Imaging LTD

Unit 8, Weybridge Business Centre, 66 York Road, Weybridge, Surrey, KT13 9DY

Tel: 0845 458 6315 Fax: 0871 9004978 E-mail: info@thermalimaging.co.uk Web: www.thermalimaging.co.uk

Cover Page for Visual

Executive and Operations summary of problems found

Also available on your Webmanager Overview page
Please use your login details provided

http://193.228.155.40/inspectrend

INFRARED THERMOGRAPHIC INSPECTION
OF
VISUAL PROBLEMS

Provided for

Report Date: 15/09/2012

Overview:

The Infrared Inspection was performed by TI Thermal Imaging, by a certified infrared Thermographer. All of the items inspected are listed in this InspecTrend report. Any anomalies are listed in order of priority based on the component's temperature rise, as measured from a reference component of equal type and load at the time of the inspection. TI Thermal Imaging assumes no liability directly or indirectly as a result of this inspection.

Current Inspection No: 1896 September 14, 2012

Prior Inspection No:

Priority	Temp Rise	**Current Inspection**	Prior Inspection	Percent of Change
1-Critical		**0 = 0%**	NA	NA
2-Serious		**2 = 14%**	NA	NA
3-Important		**10 = 71%**	NA	NA
4-Minor		**2 = 14%**	NA	NA
	Total Tested Problems:	**14**	NA	NA
	Number of New Documented Problems:	14 =100%	NA	NA
	Number of Tested re-occuring Problems:	0 = 0%	NA	NA

Number of prior problems which were Not Tested this inspection : NA

Number of Total Open Problems **14**

Number of prior problems which tested Normal this inspection : NA

I hereby certify the above project was inspected by myself or under my direction and that the enclosed data is the direct result of this inspection.

TI Thermal Imaging

Michel, Jason

Certification Level/No.:

* Summary of reoccuring problems on following page(s)

Ti Thermal Imaging LTD

Unit 8, Weybridge Business Centre, 66 York Road, Weybridge, Surrey, KT13 9DY

Tel: 0845 458 6315 Fax: 0871 9004978 E-mail: info@thermalimaging.co.uk Web: www.thermalimaging.co.uk

Cover Page for T/D Electrical

Executive and Operations summary of problems found

Also available on your Webmanager Overview page
Please use your login details provided

http://193.228.155.40/inspectrend

INFRARED THERMOGRAPHIC INSPECTION
OF
TRANSMISSION / DISTRIBUTION
ELECTRICAL INSPECTION

Report Date: 16/09/2012

Provided for

Overview:

The Infrared Electrical Inspection was performed by TI Thermal Imaging, by a certified infrared Thermographer. All of the items inspected are listed in this InspecTrend report. Any anomalies are listed in order of priority based on the component's temperature rise, as measured from a reference component of equal type and load at the time of the inspection. TI Thermal Imaging assumes no liability directly or indirectly as a result of this inspection.

Current Inspection No: 1896 **September 14, 2012**

Prior Inspection No:

Priority	Temp Rise	**Current Inspection**	Prior Inspection	Percent of Change
1-Critical	33 - Above	**0 = 0%**	NA	NA
2-Serious	16 - 32	**0 = 0%**	NA	NA
3-Important	8 - 15	**0 = 0%**	NA	NA
4-Minor	1 - 7	**0 = 0%**	NA	NA
5-Normal	0	**0 = 0%**	NA	NA
	Total Tested Problems:	**0**	NA	NA
	Number of New Documented Problems:	0	NA	NA
	Number of Tested re-occuring Problems:	0	NA	NA

Number of prior problems which were Not Tested this inspection : NA

Number of Total Open Problems **NA**

Number of prior problems which tested Normal this inspection : NA

I hereby certify the above project was inspected by myself or under my direction and that the enclosed data is the direct result of this inspection.

TI Thermal Imaging

Michel, Jason

Certification Level/No.:

* Summary of reoccuring problems on following page(s)

Ti Thermal Imaging LTD

Unit 8, Weybridge Business Centre, 66 York Road, Weybridge, Surrey, KT13 9DY

Tel: 0845 458 6315 Fax: 0871 9004978 E-mail: info@thermalimaging.co.uk Web: www.thermalimaging.co.uk

List of Open Problems

Full list of thermal, mechanical and visual issues found

Also available on your Webmanager Problems page
Please use your login details provided

http://193.228.155.40/inspectrend

List of All Open Problems

Operation Priority Key

CTO = Critical to operation
ETO = Essential to operation
NON = Non-essential to operation
UNC = Un-Classified

Report Date: 15/09/2012

Prior Inspection No :

Current Inspection No : 1896 **September 14, 2012**

Prob#	Asset ID		Insp#	Temp Rise	% Load	Severity	Status
V 6	-	Equipment: INVERTER ROOM \ BUSBAR Component: Missing panel fixings causing the panel to be secured insufficiently	1896			4-Minor	TESTED
V 1	-	Equipment: ROW A \ A10 Component: Elevated Surface Temperature at AR1, AR2 and AR3	1896			3-Important	TESTED
V 2	-	Equipment: ROW A \ A11 Component: Elevated Surface Temperature at AR1 and AR2	1896			3-Important	TESTED
V 3	-	Equipment: ROW A \ A12 Component: Elevated Surface Temperature at AR1, AR2 and AR3	1896			2-Serious	TESTED
V 4	-	Equipment: ROW B \ B12 Component: Elevated Surface Temperature at AR1, AR2 and AR3	1896			2-Serious	TESTED
V 5	-	Equipment: ROW B \ B13 Component: Elevated Surface Temperature at AR1	1896			3-Important	TESTED
V 7	-	Equipment: ROW B \ B14 Component: Elevated Surface Temperature at AR1	1896			3-Important	TESTED
V 11	-	Equipment: ROW C \ C1 Component: Elevated Surface Temperature at AR1	1896			3-Important	TESTED

List of All Open Problems

Operation Priority Key

CTO = Critical to operation
ETO = Essential to operation
NON = Non-essential to operation
UNC = Un-Classified

Report Date: 15/09/2012

Prior Inspection No :

Current Inspection No : 1896 **September 14, 2012**

Prob#	Asset ID		Insp#	Temp Rise	% Load	Severity	Status
V 10	-	Equipment: ROW C \ C30 Component: Elevated Surface Temperature at AR1 and AR2	1896			3-Important	TESTED
V 9	-	Equipment: ROW C \ C31 Component: Elevated Surface Temperature at AR1, AR2 and AR3	1896			3-Important	TESTED
V 8	-	Equipment: ROW C \ C32 Component: Elevated Surface Temperature at AR1	1896			3-Important	TESTED
V 12	-	Equipment: ROW I \ I15 Component: Elevated Surface Temperature at AR1	1896			4-Minor	TESTED
V 13	-	Equipment: ROW K \ K20 Component: Elevated Surface Temperature at AR1	1896			3-Important	TESTED
V 14	-	Equipment: ROW N \ N1 Component: Elevated Surface Temperature at AR1 and AR2	1896			3-Important	TESTED

Ti Thermal Imaging LTD

Unit 8, Weybridge Business Centre, 66 York Road, Weybridge, Surrey, KT13 9DY

Tel: 0845 458 6315 Fax: 0871 9004978 E-mail: info@thermalimaging.co.uk Web: www.thermalimaging.co.uk

Inspection Inventory Pages

Equipment listing and test status

Also available on your Webmanager Inventory page with Photos
Please use your login details provided

http://193.228.155.40/inspectrend

Current Inspection Inventory Status
By Inspection Order

Other

NI = Not Issued

Test Status Note

SCE = Safety Critical

Problem Type Key

TD = T/D Electrical
M = Mechanical
V = Visual Inspection

Operation Priority Key

CTO = Critical to operation
ETO = Essential to operation
NON = Non-essential to operation
UNC = Un-Classified

Equipment Test Status Key

TBT = To Be Tested
NT/NL = Not Tested/No Load
NT/TC = Not Tested/Time Constraint
NT/UR = Not Tested/Under Repair
NT/LO = Not Tested/Locked Out
NT/NA = Not Tested/Not Available
NT/NS = Not Tested/Not Specified
NSFI = Not Selected for this insp.

Prior Inspection No:

Current Inspection No: 1896

Report Date: 15/09/2012

Inspected By : Michel, Jason

Work Order	Asset ID	Equipment Description	CTO	Tested	Problem #	Test Status Notes
NI	-	ROW A	CTO	TESTED		
NI	-	A10	CTO	TESTED	V1	
NI	-	A11	CTO	TESTED	V2	
NI	-	A12	CTO	TESTED	V3	
NI	-	ROW B	CTO	TESTED		
NI	-	B12	CTO	TESTED	V4	
NI	-	B13	CTO	TESTED	V5	
NI	-	B14	CTO	TESTED	V7	
NI	-	ROW C	CTO	TESTED		
NI	-	C32	CTO	TESTED	V8	
NI	-	C31	CTO	TESTED	V9	
NI	-	C30	CTO	TESTED	V10	
NI	-	C1	CTO	TESTED	V11	
NI	-	ROW D	CTO	TESTED		
NI	-	ROW E	CTO	TESTED		
NI	-	ROW F	CTO	TESTED		
NI	-	ROW G	CTO	TESTED		
NI	-	ROW H	CTO	TESTED		
NI	-	ROW I	CTO	TESTED		
NI	-	I15	CTO	TESTED	V12	
NI	-	ROW J	CTO	TESTED		
K	-	ROW K	CTO	TESTED		
NI	-	K20	CTO	TESTED	V13	
NI	-	ROW L	CTO	TESTED		
NI	-	ROW M	CTO	TESTED		
NI	-	ROW N	CTO	TESTED		
NI	-	N1	CTO	TESTED	V14	
NI	-	ROW O	CTO	TESTED		

Current Inspection Inventory Status
By Inspection Order

Other

NI = Not Issued

Test Status Note

SCE = Safety Critical

Problem Type Key

TD = T/D Electrical
M = Mechanical
V = Visual Inspection

Operation Priority Key

CTO = Critical to operation
ETO = Essential to operation
NON = Non-essential to operation
UNC = Un-Classified

Equipment Test Status Key

TBT = To Be Tested
NT/NL = Not Tested/No Load
NT/TC = Not Tested/Time Constraint
NT/UR = Not Tested/Under Repair
NT/LO = Not Tested/Locked Out
NT/NA = Not Tested/Not Available
NT/NS = Not Tested/Not Specified
NSFI = Not Selected for this insp.

Prior Inspection No:

Report Date: 15/09/2012

Current Inspection No: 1896

Inspected By : Michel, Jason

Work Order	Asset ID	Equipment Description	CTO	Tested	Problem #	Test Status Notes
NI	-	ROW P	CTO	TESTED		
NI	-	ROW Q	CTO	TESTED		
NI	-	ROW R	CTO	TESTED		
NI	-	ROW S	CTO	TESTED		
NI	-	ROW T	CTO	TESTED		
NI	-	ROW U	CTO	TESTED		
NI	-	ROW V	CTO	TESTED		
NI	-	ROW W	CTO	TESTED		
NI	-	ROW X	CTO	TESTED		
NI	-	ROW Y	CTO	TESTED		
NI	-	ROW Z	CTO	TESTED		
NI	-	ROW AA	CTO	TESTED		
NI	-	ROW AB	CTO	TESTED		
NI	-	ROW AC	CTO	TESTED		
NI	-	ROW AD	CTO	TESTED		
NI	-	ROW AE	CTO	TESTED		
NI	-	ROW AF	CTO	TESTED		
NI	-	ROW AG	CTO	TESTED		
NI	-	ROW AH	CTO	TESTED		
NI	-	ROW AI	CTO	TESTED		
NI	-	INVERTER ROOM	CTO	TESTED		
NI	INVERTER 1	INVERTER 1	CTO	TESTED		
NI	INVERTER 2	INVERTER 2	CTO	TESTED		
NI	INVERTER 3	INVERTER 3	CTO	TESTED		
NI	INVERTER 4	INVERTER 4	CTO	TESTED		
NI	INVERTER 5	INVERTER 5	CTO	TESTED		
NI	INVERTER 6	INVERTER 6	CTO	TESTED		
NI	INVERTER 7	INVERTER 7	CTO	TESTED		

Current Inspection Inventory Status
By Inspection Order

Other

NI = Not Issued

Test Status Note

SCE = Safety Critical

Problem Type Key

TD = T/D Electrical
M = Mechanical
V = Visual Inspection

Operation Priority Key

CTO = Critical to operation
ETO = Essential to operation
NON = Non-essential to operation
UNC = Un-Classified

Equipment Test Status Key

TBT = To Be Tested
NT/NL = Not Tested/No Load
NT/TC = Not Tested/Time Constraint
NT/UR = Not Tested/Under Repair
NT/LO = Not Tested/Locked Out
NT/NA = Not Tested/Not Available
NT/NS = Not Tested/Not Specified
NSFI = Not Selected for this insp.

Prior Inspection No:

Report Date: 15/09/2012

Current Inspection No: 1896

Inspected By : Michel, Jason

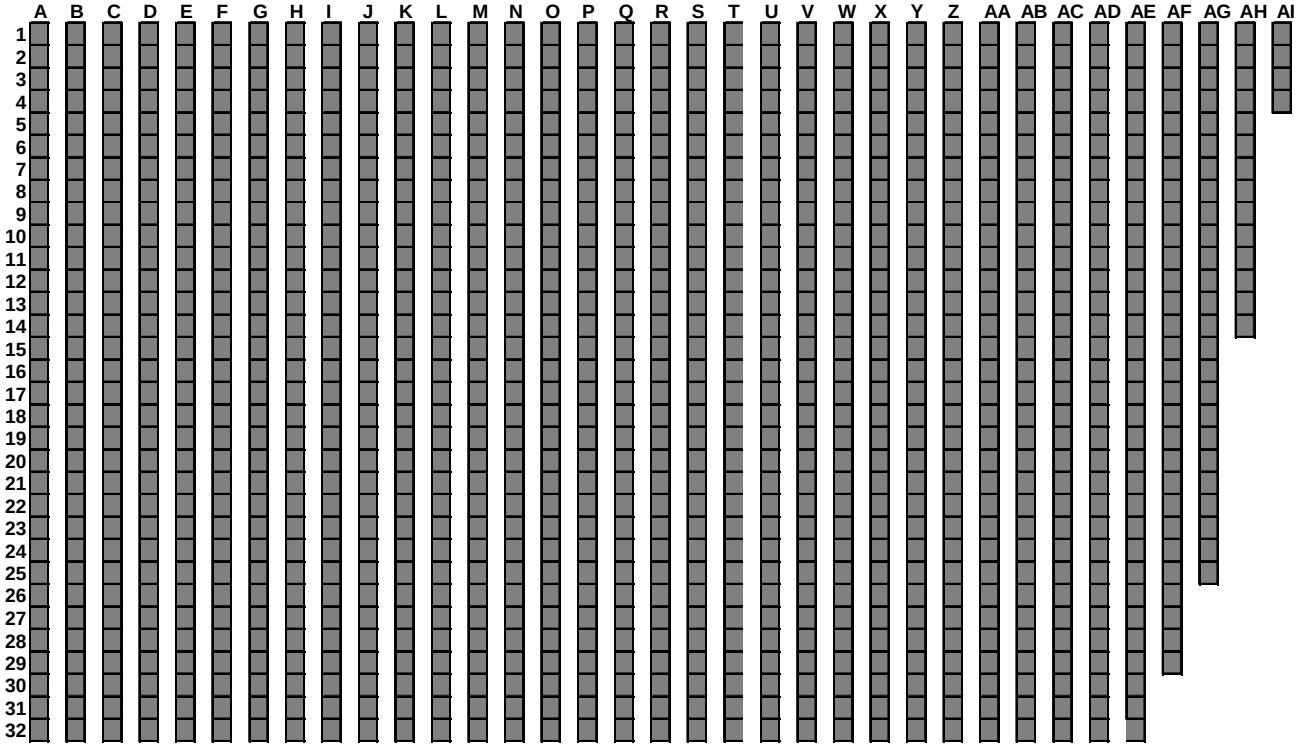
Work Order	Asset ID	Equipment Description	CTO	Tested	Problem #	Test Status Notes
NI	INVERTER 8	INVERTER 8	CTO	TESTED		
NI	INVERTER 9	INVERTER 9	CTO	TESTED		
NI	KWH GENERATED METER	KWH GENERATED METER	CTO	TESTED		
NI	BUSBAR	BUSBAR	CTO	TESTED	V6	

Ti Thermal Imaging LTD

Unit 8, Weybridge Business Centre, 66 York Road, Weybridge, Surrey, KT13 9DY

Tel: 0845 458 6315 Fax: 0871 9004978 E-mail: info@thermalimaging.co.uk Web: www.thermalimaging.co.uk

GRID OUTLINE OF SOLAR PANLES



Ti Thermal Imaging LTD

Unit 8, Weybridge Business Centre, 66 York Road, Weybridge, Surrey, KT13 9DY

Tel: 0845 458 6315 Fax: 0871 9004978 E-mail: info@thermalimaging.co.uk Web: www.thermalimaging.co.uk

Documentation pages for Visual findings

Details of Visual problems found

Also available on your Webmanager Problems page
Please use your login details provided

http://193.228.155.40/inspectrend

Visual Problem Documentation

Work Order#: NOT ISSUED

Location/Equipment Information

Asset ID: -

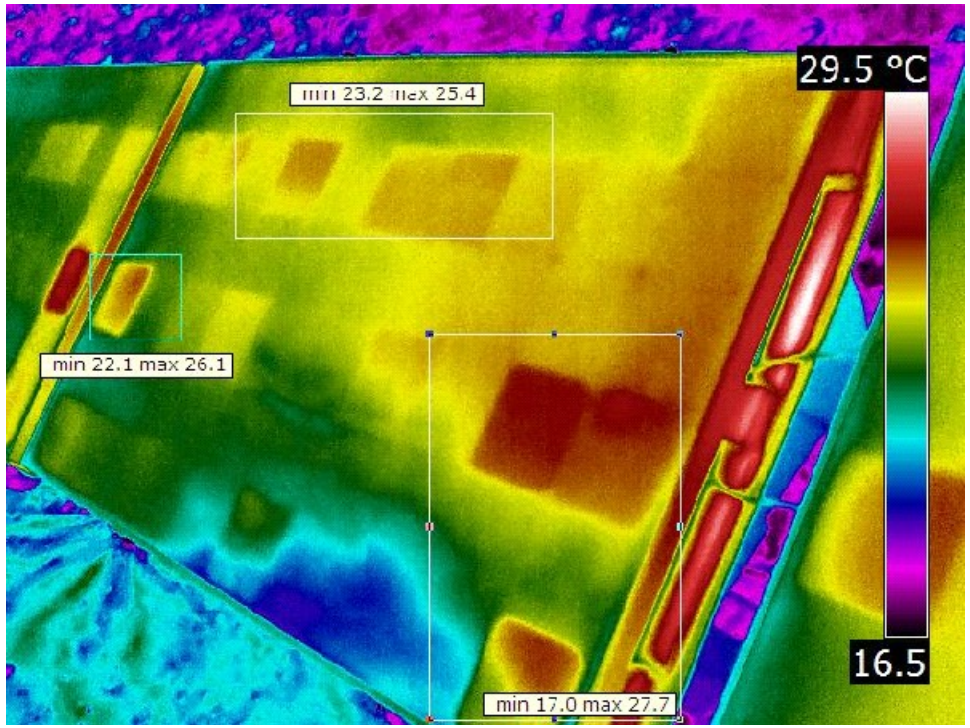
ROW A
A10

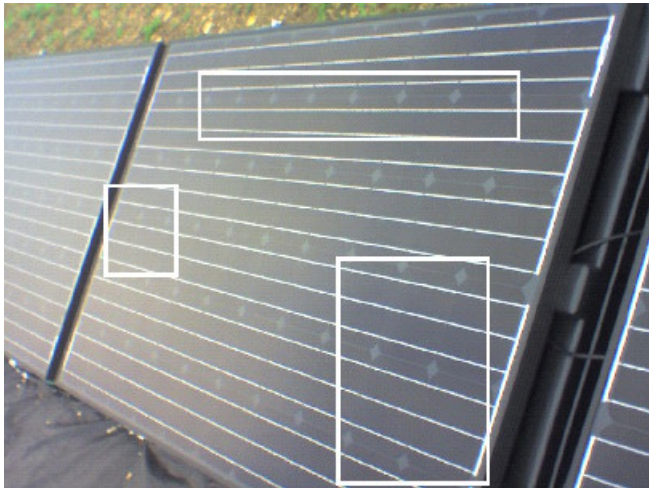
Current Prob No: Visual/1

Is Chronic: **No**
Operation Priority: **Critical to operation**
Repair Priority: **3-Important**

InspectionNo: **1896**
Report Date: **15/09/2012**

Classification: Solar Panel
Observations: Elevated Surface Temperature at AR1, AR2 and AR3
What is the Cause: Suspected Faulty Solar Cell(s)
Recommendations: Further investigation required





File: IR_11329A.jpg Date: 15/09/2012 Time: 12:49 PM
File: DC_11330.jpg Date: 15/09/2012 Time: 12:51 PM

Technician: **Michel, Jason**
Certification Level/No.:

Visual Problem Documentation

Work Order#: NOT ISSUED

Location/Equipment Information

Asset ID: -

ROW A
A11

Current Prob No: Visual/2

Is Chronic:	**No**
Operation Priority:	**Critical to operation**
Repair Priority:	**3-Important**

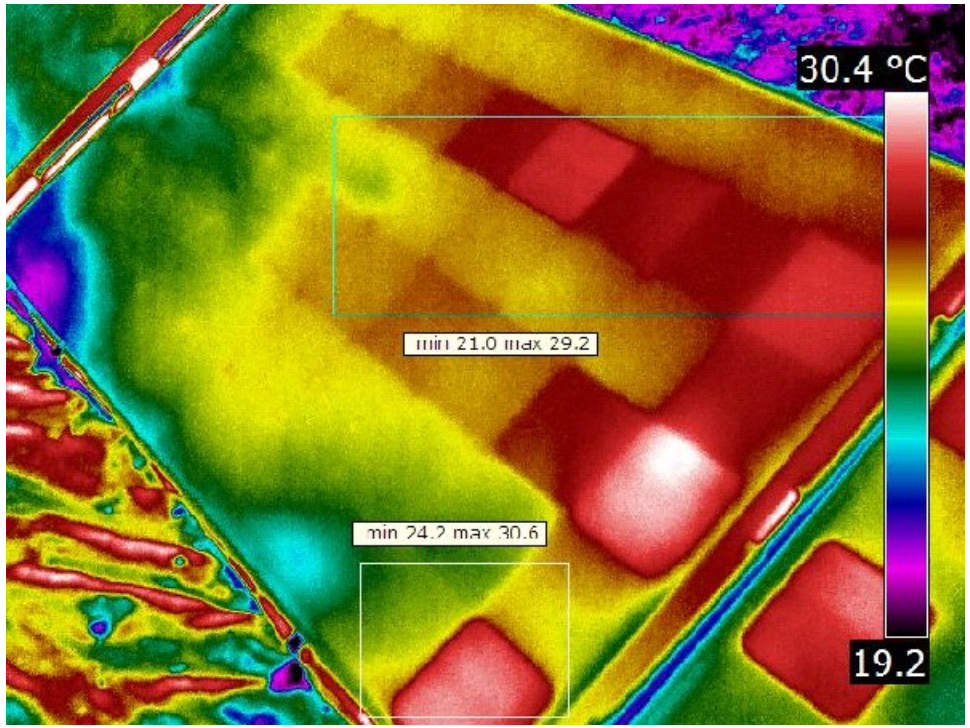
InspectionNo: **1896**
Report Date: **15/09/2012**

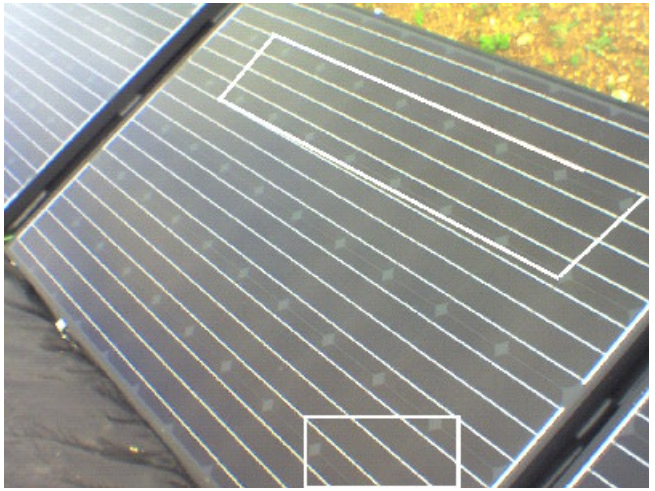
Classification: Solar Panel

Observations: Elevated Surface Temperature at AR1 and AR2

What is the Cause: Suspected Faulty Solar Cell(s)

Recommendations: Further investigation required





File: IR_11331A.jpg Date: 15/09/2012 Time: 12:53 PM
File: DC_11332.jpg Date: 15/09/2012 Time: 12:53 PM

Technician: **Michel, Jason**
Certification Level/No.:

Visual Problem Documentation

Work Order#: NOT ISSUED

Location/Equipment Information

Asset ID: -

ROW A
A12

Current Prob No: Visual/3

Is Chronic:	**No**
Operation Priority:	**Critical to operation**
Repair Priority:	**2-Serious**

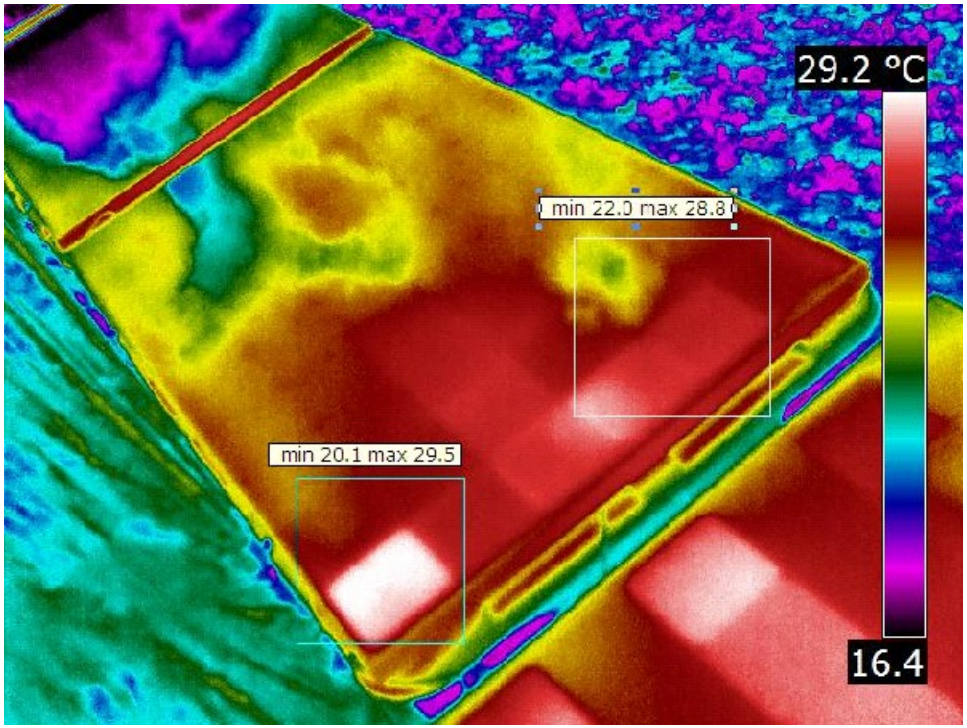
InspectionNo: **1896**
Report Date: **15/09/2012**

Classification: Solar Panel

Observations: Elevated Surface Temperature at AR1, AR2 and AR3

What is the Cause: Suspected Faulty Solar Cell(s)

Recommendations: Further investigation required



File: IR_11333A.jpg Date: 15/09/2012 Time: 01:00 PM
File: DC_11334.jpg Date: 14/09/2012 Time: 10:19 AM

Technician: **Michel, Jason**
Certification Level/No.:

Visual Problem Documentation

Work Order#: NOT ISSUED

Location/Equipment Information

Asset ID: -

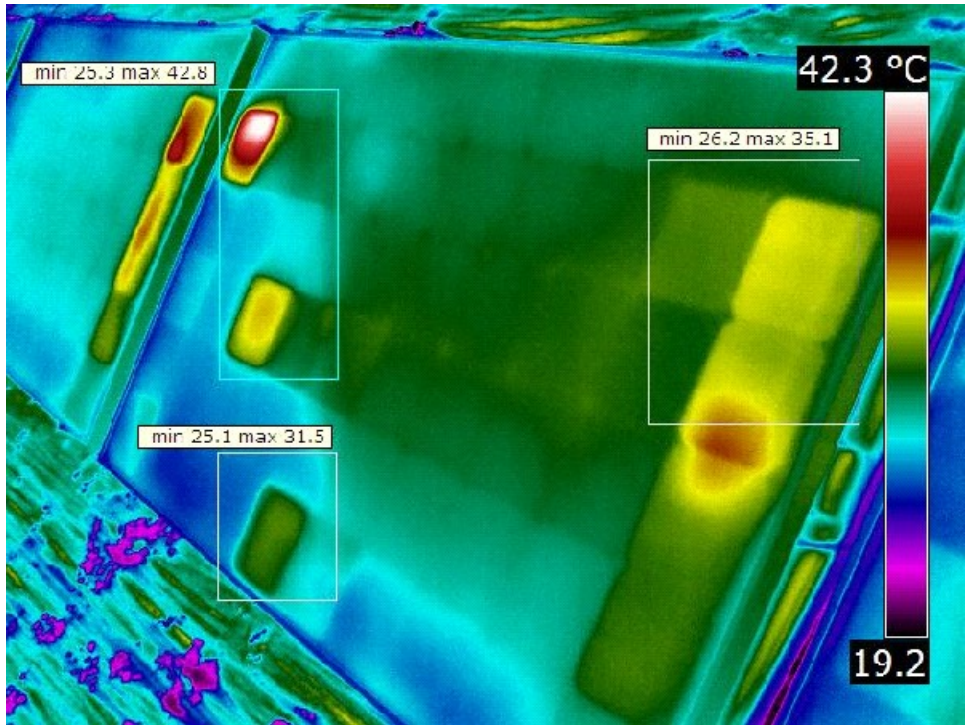
ROW B
B12

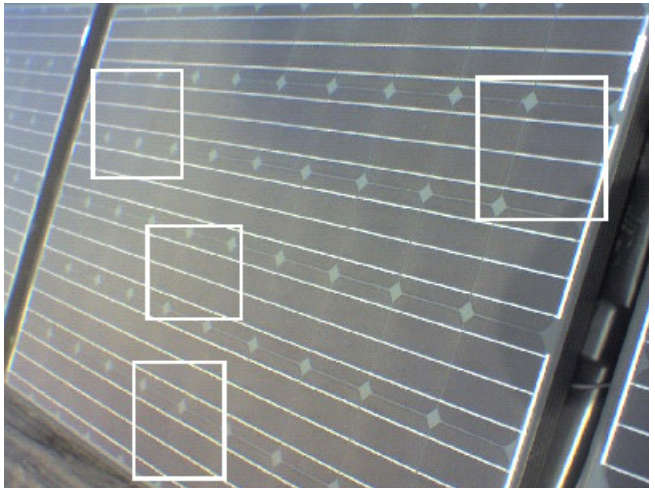
Current Prob No: Visual/4

Is Chronic: **No**
Operation Priority: **Critical to operation**
Repair Priority: **2-Serious**

InspectionNo: **1896**
Report Date: **15/09/2012**

Classification: Solar Panel
Observations: Elevated Surface Temperature at AR1, AR2 and AR3
What is the Cause: Suspected Faulty Solar Cell(s)
Recommendations: Further investigation required





File: IR_11335A.jpg Date: 15/09/2012 Time: 12:57 PM
File: DC_11336.jpg Date: 15/09/2012 Time: 12:57 PM

Technician: **Michel, Jason**
Certification Level/No.:

Visual Problem Documentation

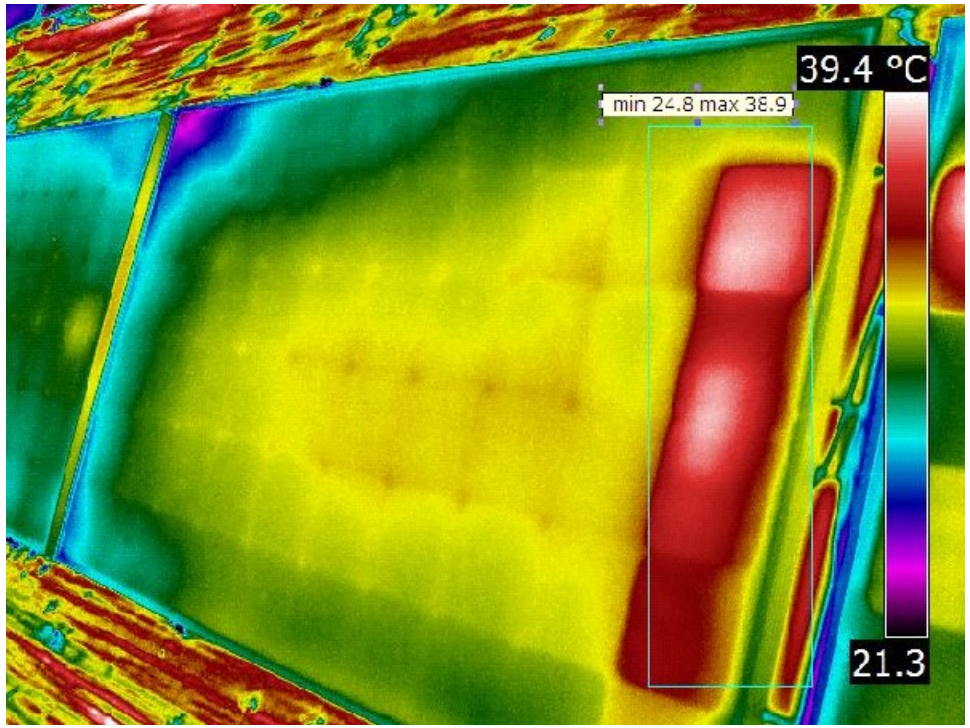
Work Order#: NOT ISSUED

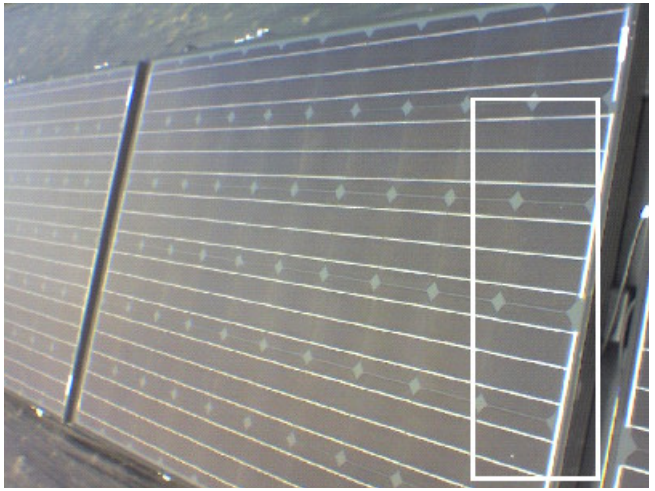
Location/Equipment Information
Asset ID: -
ROW B B13

Current Prob No: Visual/5	
Is Chronic:	**No**
Operation Priority:	**Critical to operation**
Repair Priority:	**3-Important**

InspectionNo: 1896
Report Date: 15/09/2012

Classification: Solar Panel
Observations: Elevated Surface Temperature at AR1
What is the Cause: Suspected Faulty Solar Cell(s)
Recommendations: Further investigation required





File: IR_11337A.jpg	Date: 15/09/2012	Time: 01:04 PM
File: DC_11338.jpg	Date: 15/09/2012	Time: 01:04 PM

Technician: **Michel, Jason**
Certification Level/No.:

Visual Problem Documentation

Work Order#: NOT ISSUED

Location/Equipment Information

Asset ID: -

INVERTER ROOM
BUSBAR

Current Prob No: Visual/6

Is Chronic:	**No**
Operation Priority:	**Critical to operation**
Repair Priority:	**4-Minor**

InspectionNo: **1896**
Report Date: **15/09/2012**

Classification: Electrical

Observations: Missing panel fixings causing the panel to be secured insufficiently

What is the Cause: Panel fixings have not been replaced after previous removal

Recommendations: Add appropriate number of panel screws

IR IMAGE IS NOT NECESSARY

File:	Date:	Time:
File: DC_11447.jpg	Date: 15/09/2012	Time: 12:33 PM

Technician: **Michel, Jason**
Certification Level/No.:

Visual Problem Documentation

Work Order#: NOT ISSUED

Location/Equipment Information

Asset ID: -

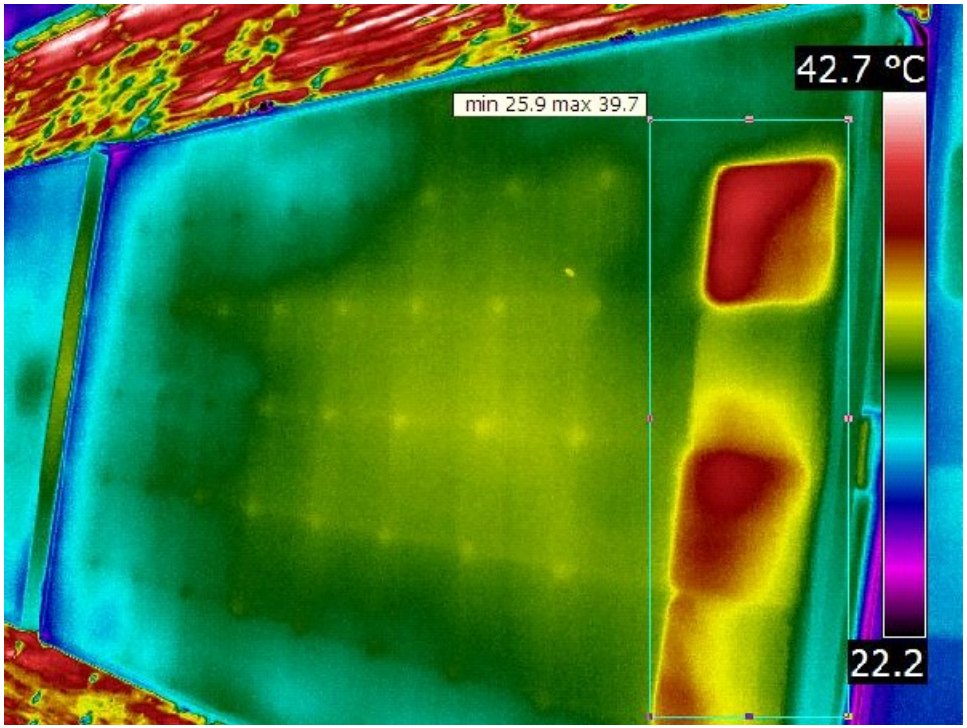
ROW B
B14

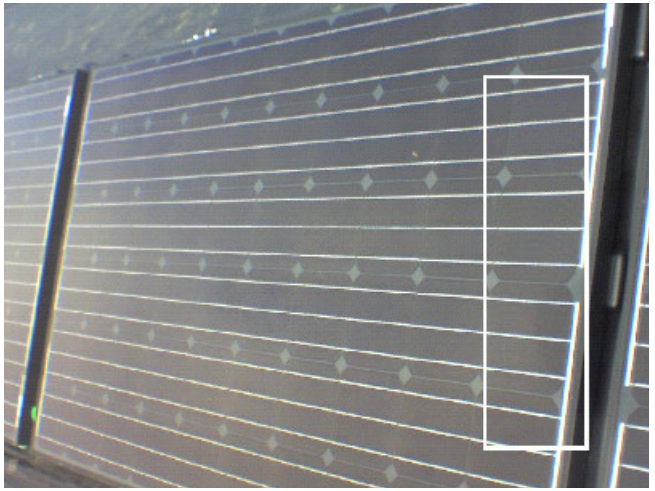
Current Prob No: Visual/7

Is Chronic:	**No**
Operation Priority:	**Critical to operation**
Repair Priority:	**3-Important**

InspectionNo: **1896**
Report Date: **15/09/2012**

Classification: Solar Panel
Observations: Elevated Surface Temperature at AR1
What is the Cause: Suspected Faulty Solar Cell(s)
Recommendations: Further investigation required





File: IR_11339A.jpg Date: 15/09/2012 Time: 01:06 PM
File: DC_11340.jpg Date: 15/09/2012 Time: 01:06 PM

Technician: **Michel, Jason**
Certification Level/No.:

Visual Problem Documentation

Work Order#: NOT ISSUED

Location/Equipment Information

Asset ID: -

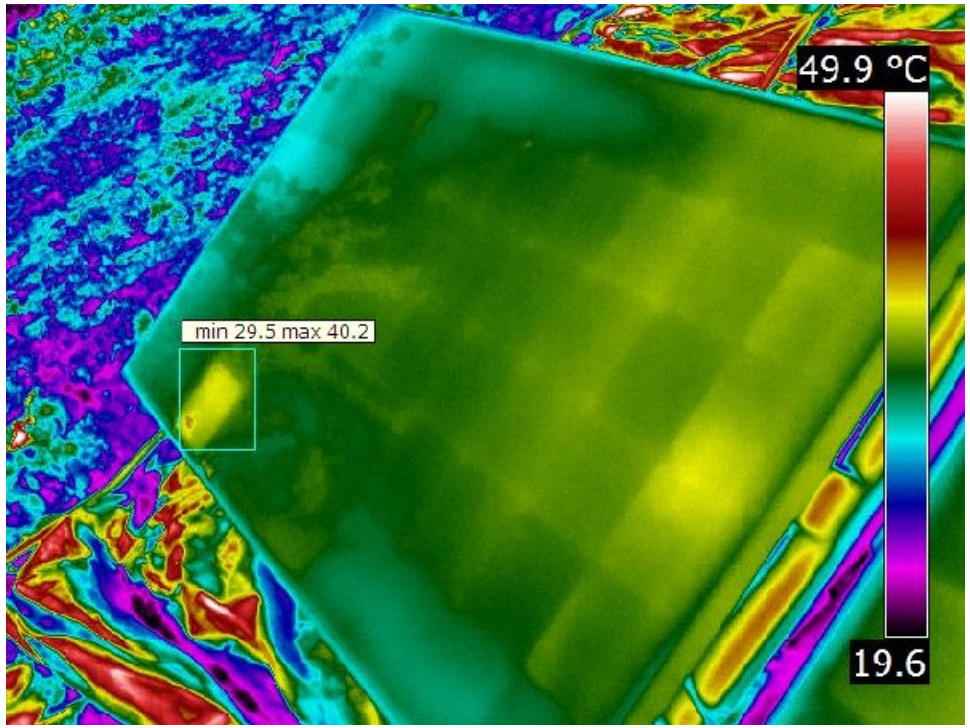
ROW C
C32

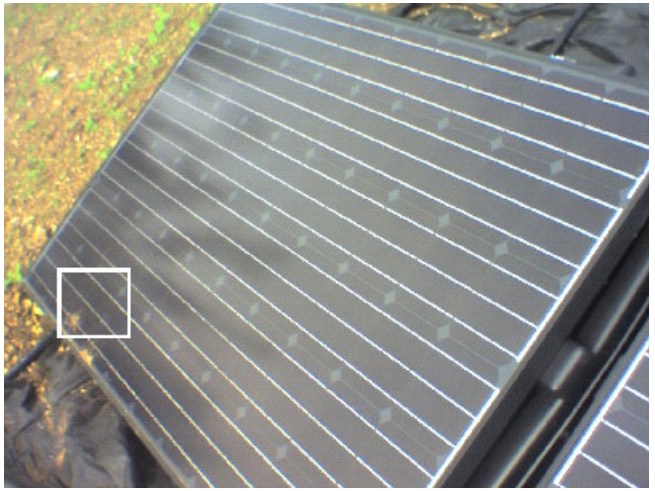
Current Prob No: Visual/8

Is Chronic: **No**
Operation Priority: **Critical to operation**
Repair Priority: **3-Important**

InspectionNo: **1896**
Report Date: **15/09/2012**

Classification: Solar Panel
Observations: Elevated Surface Temperature at AR1
What is the Cause: Suspected Faulty Solar Cell(s)
Recommendations: Further investigation required





File: IR_11341A.jpg Date: 15/09/2012 Time: 01:12 PM
File: DC_11342.jpg Date: 15/09/2012 Time: 01:12 PM

Technician: **Michel, Jason**
Certification Level/No.:

Visual Problem Documentation

Work Order#: NOT ISSUED

Location/Equipment Information
Asset ID: -
ROW C C31

Current Prob No: Visual/9	
Is Chronic:	**No**
Operation Priority:	**Critical to operation**
Repair Priority:	**3-Important**

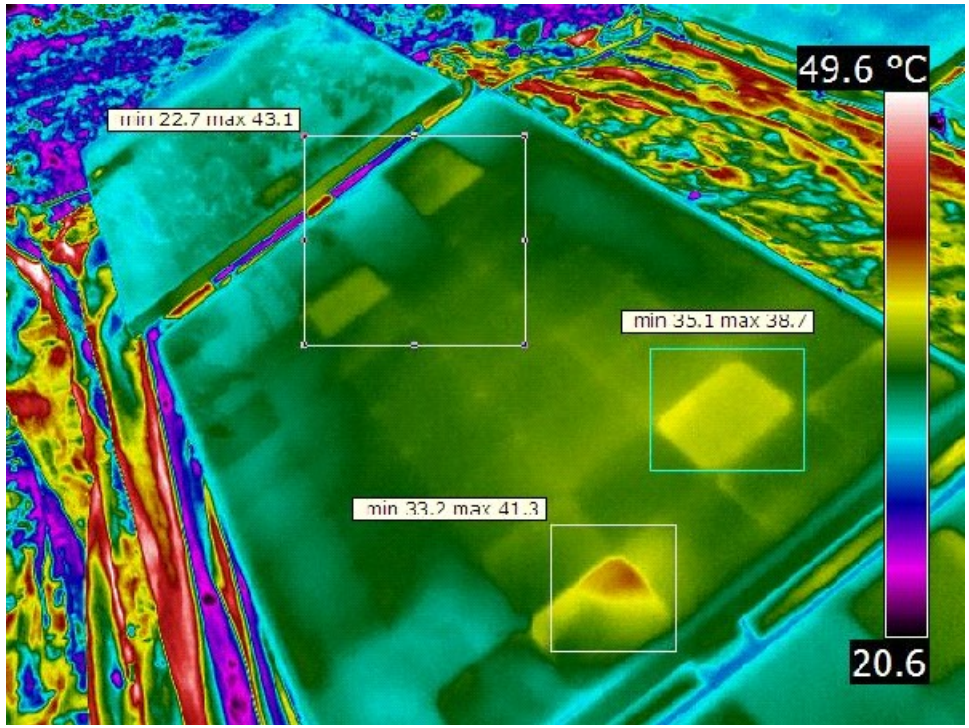
InspectionNo: 1896
Report Date: 15/09/2012

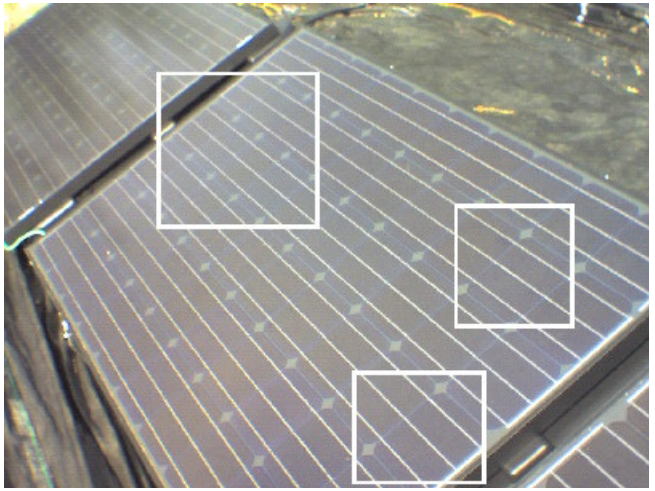
Classification: Solar Panel

Observations: Elevated Surface Temperature at AR1, AR2 and AR3

What is the Cause:

Recommendations:





File: IR_11343A.jpg	Date: 15/09/2012	Time: 01:16 PM
File: DC_11344.jpg	Date: 15/09/2012	Time: 01:17 PM

Technician:	**Michel, Jason**
Certification Level/No.:	

Visual Problem Documentation

Work Order#: NOT ISSUED

Location/Equipment Information

Asset ID: -

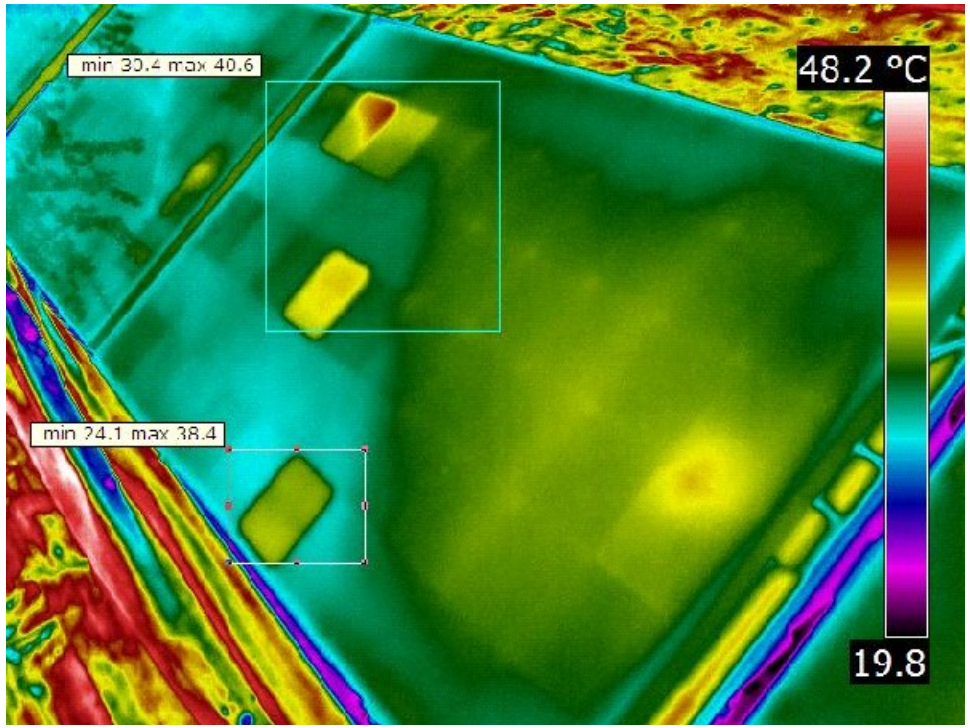
ROW C
C30

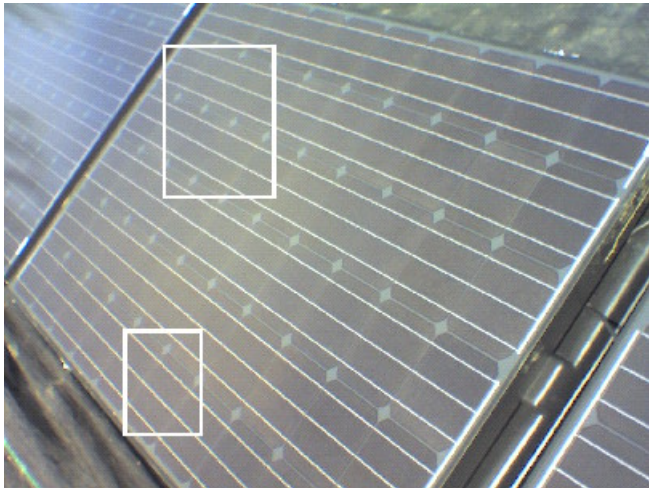
Current Prob No: Visual/10

Is Chronic: **No**
Operation Priority: **Critical to operation**
Repair Priority: **3-Important**

InspectionNo: **1896**
Report Date: **15/09/2012**

Classification: Solar Panel
Observations: Elevated Surface Temperature at AR1 and AR2
What is the Cause: Suspected Faulty Solar Cell(s)
Recommendations: Further investigation required





File: IR_11345A.jpg Date: 15/09/2012 Time: 01:29 PM
File: DC_11346.jpg Date: 15/09/2012 Time: 01:29 PM

Technician: **Michel, Jason**
Certification Level/No.:

Visual Problem Documentation

Work Order#: NOT ISSUED

Location/Equipment Information

Asset ID: -

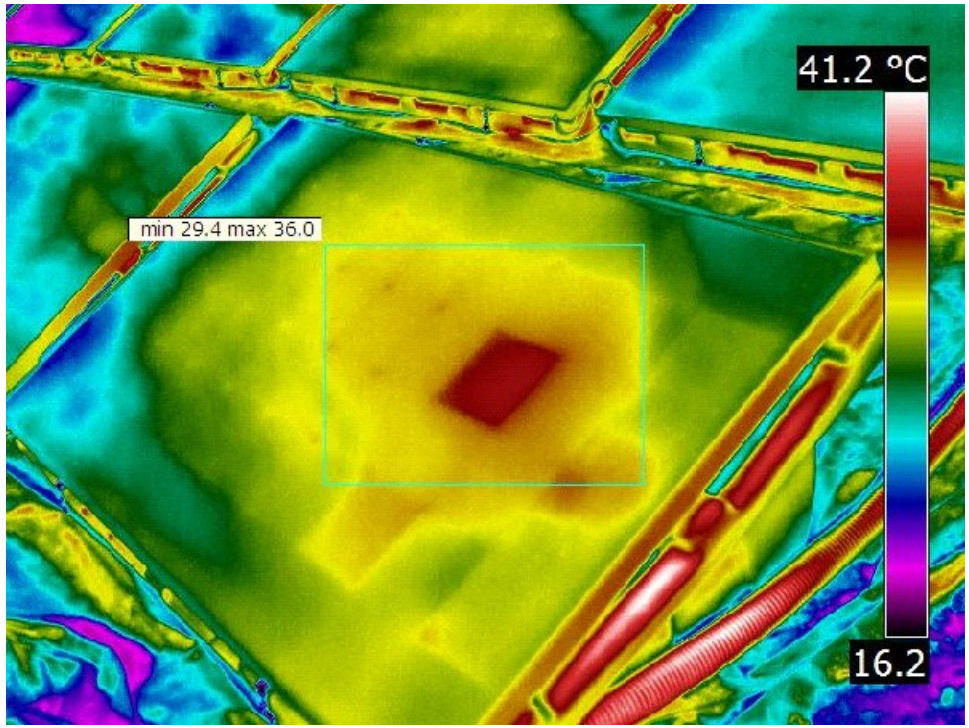
ROW C
C1

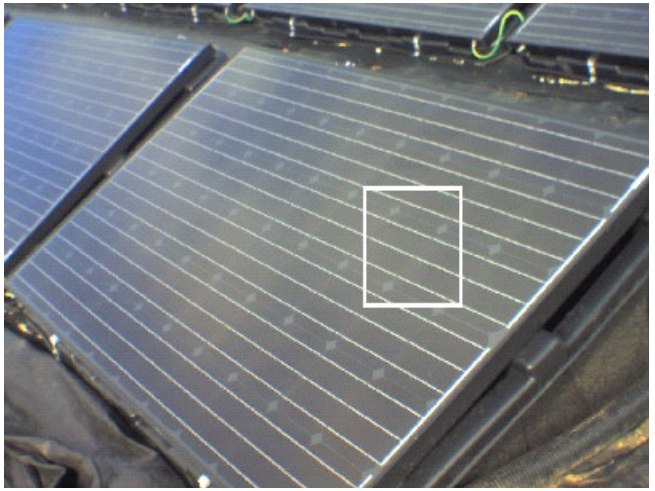
Current Prob No: Visual/11

Is Chronic:	**No**
Operation Priority:	**Critical to operation**
Repair Priority:	**3-Important**

InspectionNo: **1896**
Report Date: **15/09/2012**

Classification: Solar Panel
Observations: Elevated Surface Temperature at AR1
What is the Cause: Suspected Faulty Solar Cell(s)
Recommendations: Further investigation required





File: IR_11347A.jpg	Date: 15/09/2012	Time: 02:08 PM
File: DC_11348.jpg	Date: 15/09/2012	Time: 02:08 PM

Technician: **Michel, Jason**
Certification Level/No.:

Visual Problem Documentation

Work Order#: NOT ISSUED

Location/Equipment Information

Asset ID: -

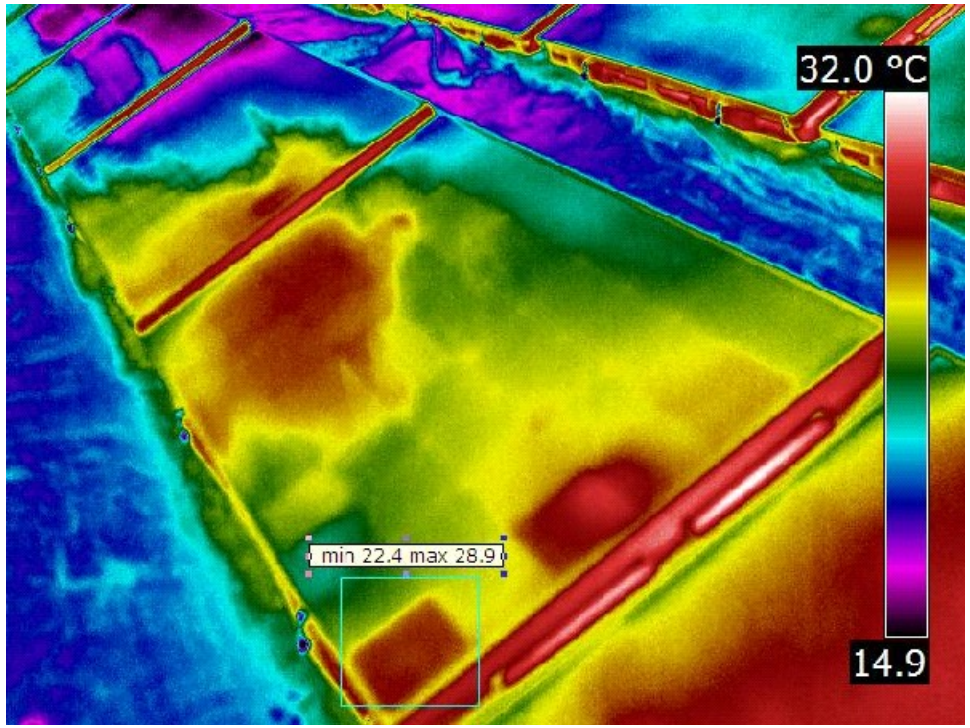
ROW I
I15

Current Prob No: Visual/12

Is Chronic: **No**
Operation Priority: **Critical to operation**
Repair Priority: **4-Minor**

InspectionNo: **1896**
Report Date: **15/09/2012**

Classification: Solar Panel
Observations: Elevated Surface Temperature at AR1
What is the Cause: Suspected Faulty Solar Cell(s)
Recommendations: Further investigation required



File: IR_11367a.jpg Date: 15/09/2012 Time: 02:18 PM
File: DC_11368.jpg Date: 15/09/2012 Time: 02:21 PM

Technician: **Michel, Jason**
Certification Level/No.:

Visual Problem Documentation

Work Order#:

Location/Equipment Information
Asset ID: -
ROW K K20

Current Prob No: Visual/13	
Is Chronic:	**No**
Operation Priority:	**Critical to operation**
Repair Priority:	**3-Important**

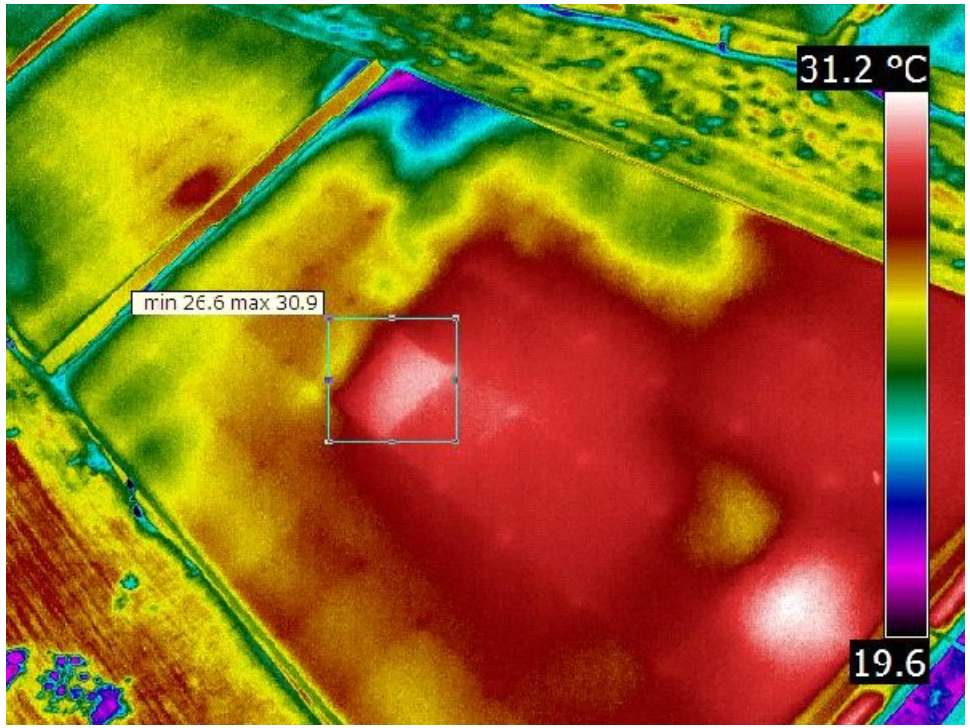
InspectionNo: **1896**
Report Date: **15/09/2012**

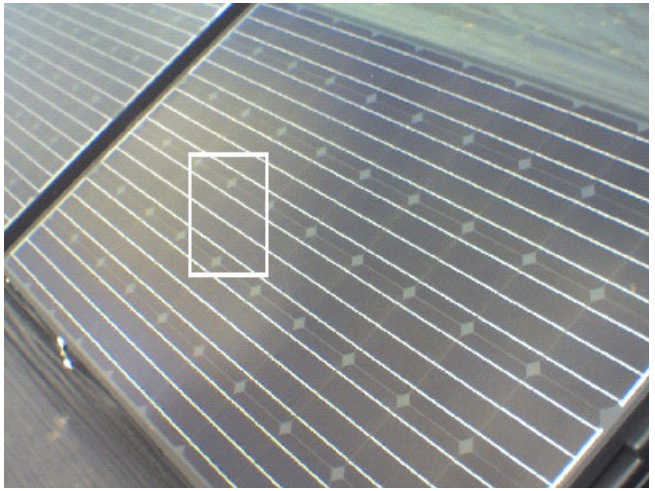
Classification: Solar Panel

Observations: Elevated Surface Temperature at AR1

What is the Cause:

Recommendations:





File: IR_11373A.jpg	Date: 15/09/2012	Time: 02:24 PM
File: DC_11374.jpg	Date: 15/09/2012	Time: 02:25 PM

Technician: **Michel, Jason**
Certification Level/No.:

Visual Problem Documentation

Work Order#: NOT ISSUED

Location/Equipment Information

Asset ID: -

ROW N
N1

Current Prob No: Visual/14

Is Chronic: **No**

Operation Priority: **Critical to operation**

Repair Priority: **3-Important**

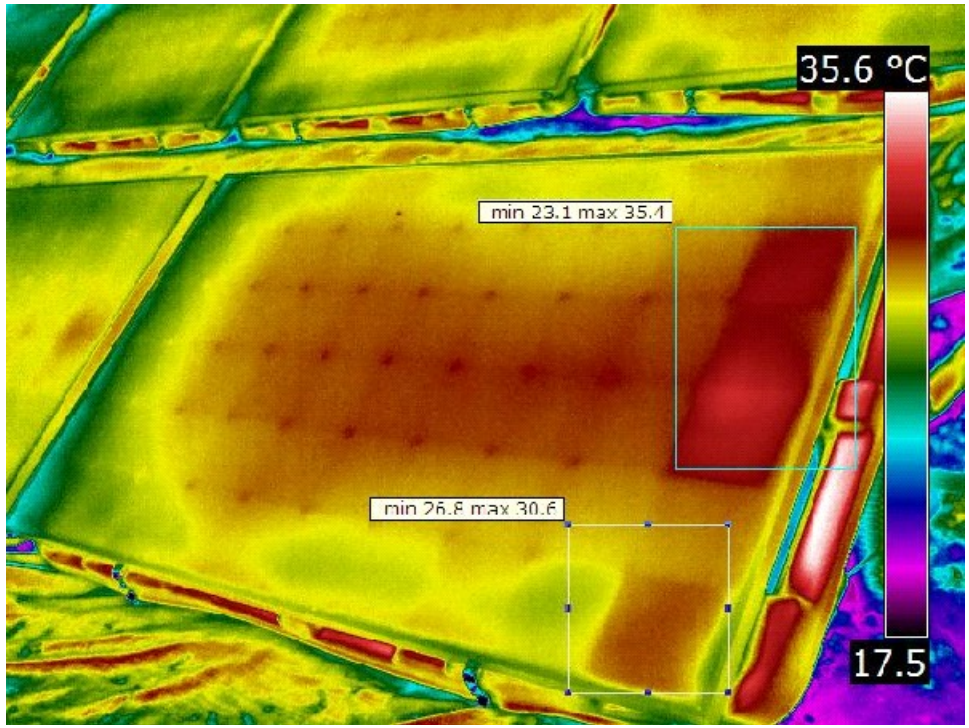
InspectionNo: **1896**
Report Date: **15/09/2012**

Classification: Solar Panel

Observations: Elevated Surface Temperature at AR1 and AR2

What is the Cause: Suspected Faulty Solar Cell(s)

Recommendations: Further investigation required



File: IR_11381A.jpg Date: 15/09/2012 Time: 02:31 PM
File: DC_11382.jpg Date: 15/09/2012 Time: 02:32 PM

Technician: **Michel, Jason**
Certification Level/No.:

Ti Thermal Imaging LTD

Unit 8, Weybridge Business Centre, 66 York Road, Weybridge, Surrey, KT13 9DY

Tel: 0845 458 6315 Fax: 0871 9004978 E-mail: info@thermalimaging.co.uk Web: www.thermalimaging.co.uk

Benchmark Baseline Trending

Full list of equipment baseline trends is also available on your Webmanager
Please use your login details provided

http://193.228.155.40/inspectrend

Equipment Baseline Trending Report
By Inspection Order

Key

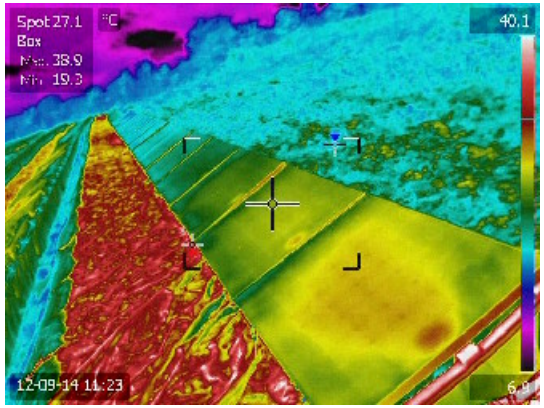
CTO = Critical to operation
ETO = Essential to operation
NON = Non-essential to operation
UNC = Un-Classified
NI = Not Issued

Current Inspection No: 1896 **September 15, 2012**

Report Date: **15/09/2012**

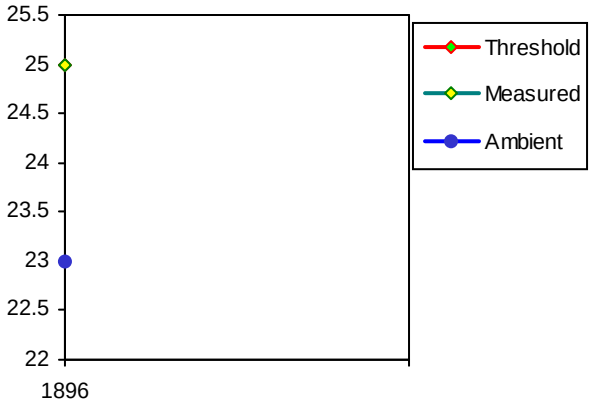
ROW A

Equipment ID: **-** **Work Order:** **NI** **Operation Priority:** **CTO**



IR_11349.jpg

DC_11350.jpg



Inspection History:

Inspection No	Date Inspected	Test Status	Measured Temp	Threshold Temp	Ambient Temp	Status Note	Customer Notes
1896	14/09/2012	TESTED	25 C	25 C	23 C		

Equipment Baseline Trending Report
By Inspection Order

Key

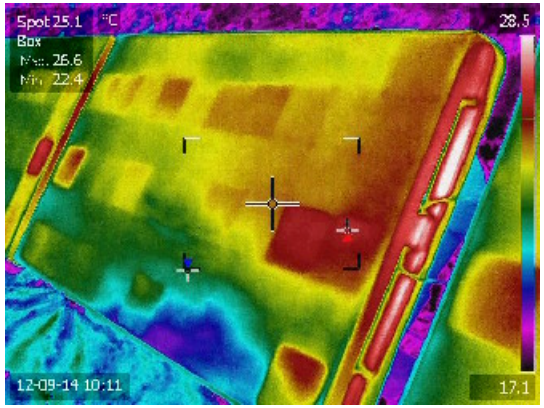
CTO = Critical to operation
ETO = Essential to operation
NON = Non-essential to operation
UNC = Un-Classified
NI = Not Issued

Current Inspection No: 1896 **September 15, 2012**

Report Date: **15/09/2012**

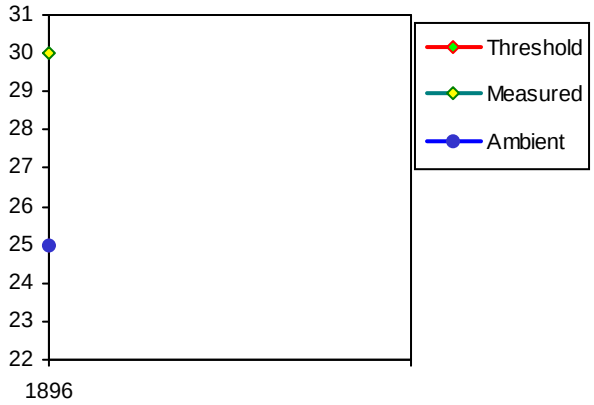
ROW A \ A10

Equipment ID: **-** **Work Order:** **NI** **Operation Priority:** **CTO**



IR_11329.jpg

DC_11330.jpg



Inspection History:

Inspection No	Date Inspected	Test Status	Measured Temp	Threshold Temp	Ambient Temp	Status Note	Customer Notes
1896	14/09/2012	TESTED	30 C	25 C	25 C		

Equipment Baseline Trending Report
By Inspection Order

Key

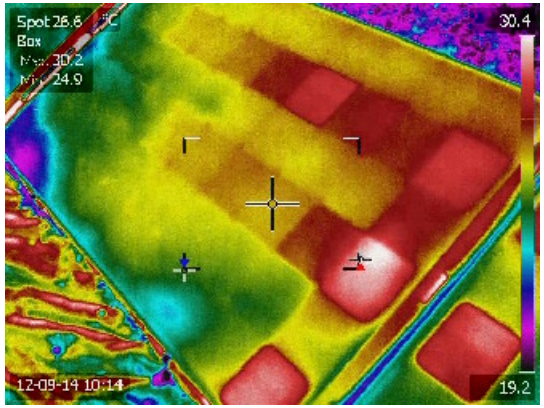
CTO = Critical to operation
ETO = Essential to operation
NON = Non-essential to operation
UNC = Un-Classified
NI = Not Issued

Current Inspection No: 1896 **September 15, 2012**

Report Date: **15/09/2012**

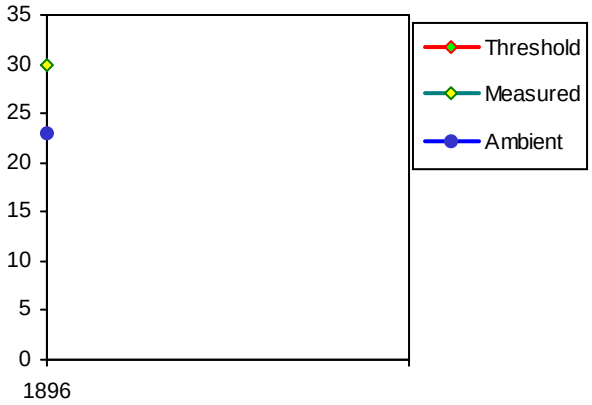
ROW A \ A11

Equipment ID: **-** **Work Order:** **NI** **Operation Priority:** **CTO**



IR_11331.jpg

DC_11332.jpg



Inspection History:

Inspection No	Date Inspected	Test Status	Measured Temp	Threshold Temp	Ambient Temp	Status Note	Customer Notes
1896	14/09/2012	TESTED	30 C	23 C	23 C		

Equipment Baseline Trending Report
By Inspection Order

Key

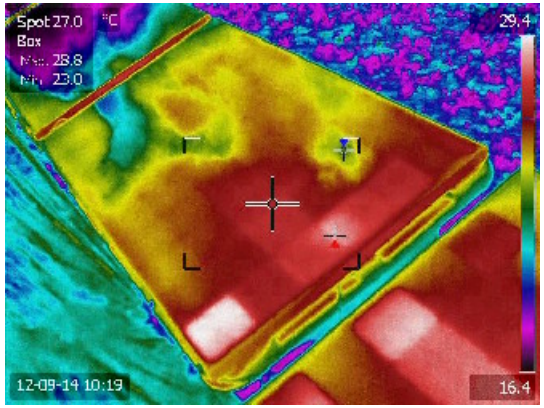
CTO = Critical to operation
ETO = Essential to operation
NON = Non-essential to operation
UNC = Un-Classified
NI = Not Issued

Current Inspection No: 1896 **September 15, 2012**

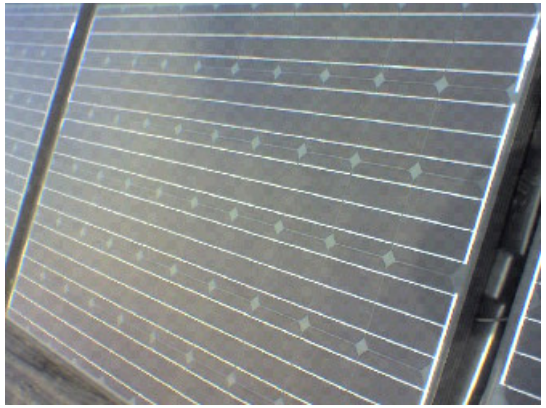
Report Date: **15/09/2012**

ROW A \ A12

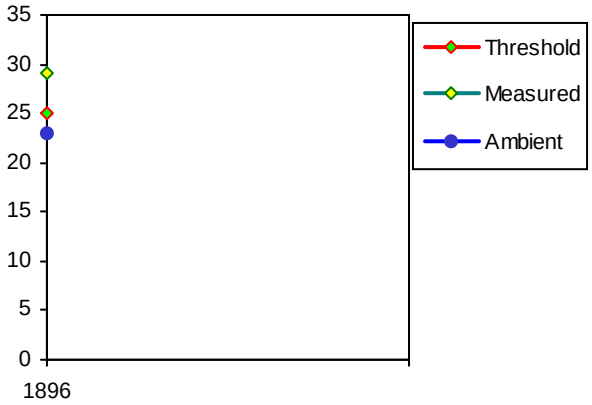
Equipment ID: **-** **Work Order:** **NI** **Operation Priority:** **CTO**



IR_11333.jpg



DC_11336.jpg



Inspection History:

Inspection No	Date Inspected	Test Status	Measured Temp	Threshold Temp	Ambient Temp	Status Note	Customer Notes
1896	14/09/2012	TESTED	29 C	25 C	23 C		

Equipment Baseline Trending Report
By Inspection Order

Key

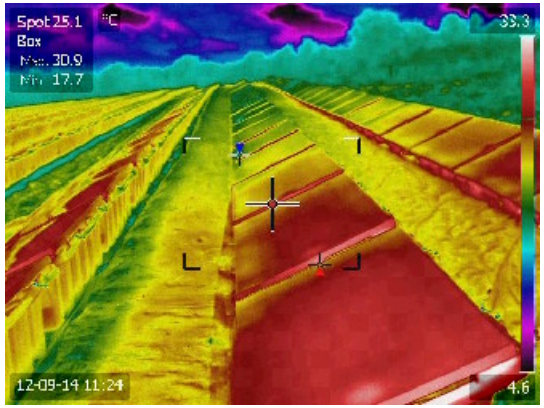
CTO = Critical to operation
ETO = Essential to operation
NON = Non-essential to operation
UNC = Un-Classified
NI = Not Issued

Current Inspection No: 1896 **September 15, 2012**

Report Date: **15/09/2012**

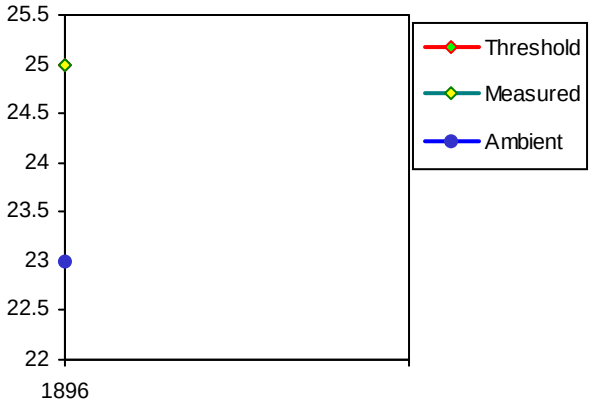
ROW B

Equipment ID: **-** **Work Order:** **NI** **Operation Priority:** **CTO**



IR_11351.jpg

DC_11352.jpg



Inspection History:

Inspection No	Date Inspected	Test Status	Measured Temp	Threshold Temp	Ambient Temp	Status Note	Customer Notes
1896	14/09/2012	TESTED	25 C	25 C	23 C		

Equipment Baseline Trending Report
By Inspection Order

Key

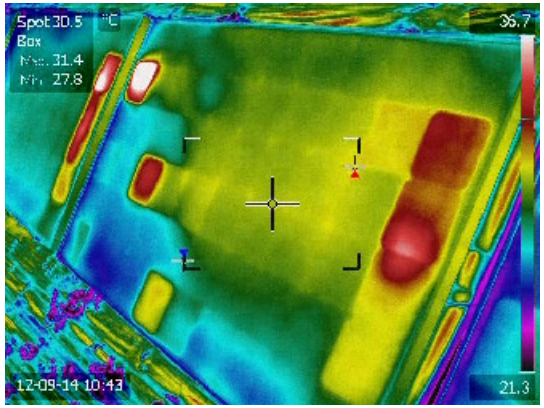
CTO = Critical to operation
ETO = Essential to operation
NON = Non-essential to operation
UNC = Un-Classified
NI = Not Issued

Current Inspection No: 1896 **September 15, 2012**

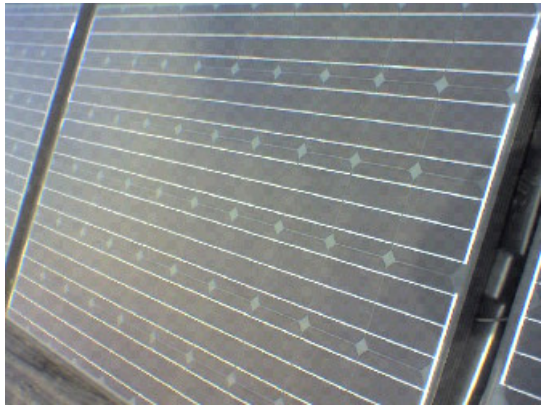
Report Date: **15/09/2012**

ROW B \ B12

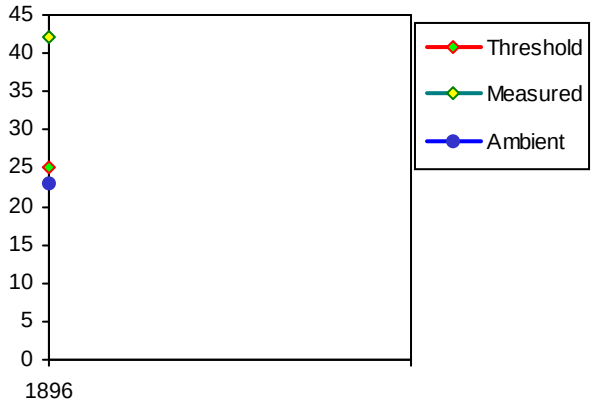
Equipment ID: **-** **Work Order:** **NI** **Operation Priority:** **CTO**



IR_11335.jpg



DC_11336.jpg



Inspection History:

Inspection No	Date Inspected	Test Status	Measured Temp	Threshold Temp	Ambient Temp	Status Note	Customer Notes
1896	14/09/2012	TESTED	42 C	25 C	23 C		

Equipment Baseline Trending Report
By Inspection Order

Key

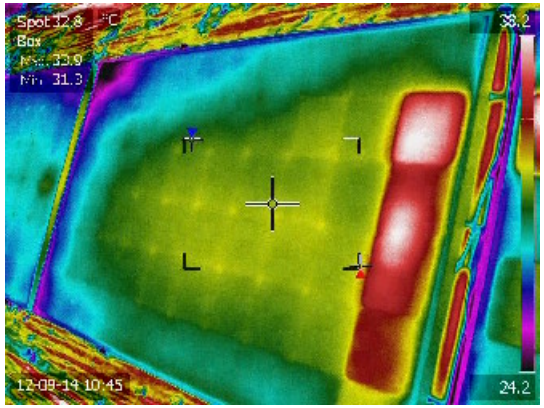
CTO = Critical to operation
ETO = Essential to operation
NON = Non-essential to operation
UNC = Un-Classified
NI = Not Issued

Current Inspection No: 1896 **September 15, 2012**

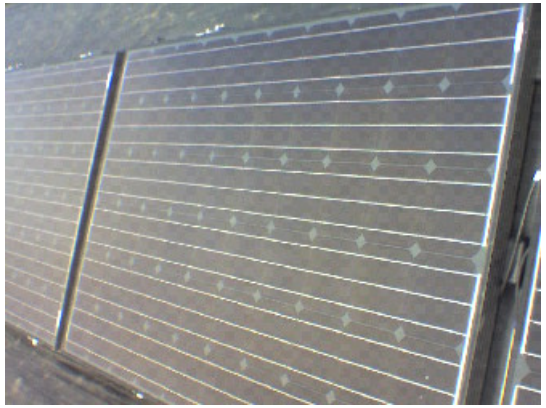
Report Date: **15/09/2012**

ROW B \ B13

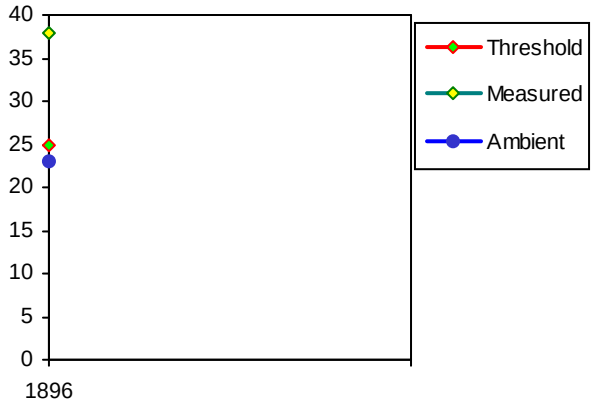
Equipment ID: **-** **Work Order:** **NI** **Operation Priority:** **CTO**



IR_11337.jpg



DC_11338.jpg



Inspection History:

Inspection No	Date Inspected	Test Status	Measured Temp	Threshold Temp	Ambient Temp	Status Note	Customer Notes
1896	14/09/2012	TESTED	38 C	25 C	23 C		

Equipment Baseline Trending Report
By Inspection Order

Key

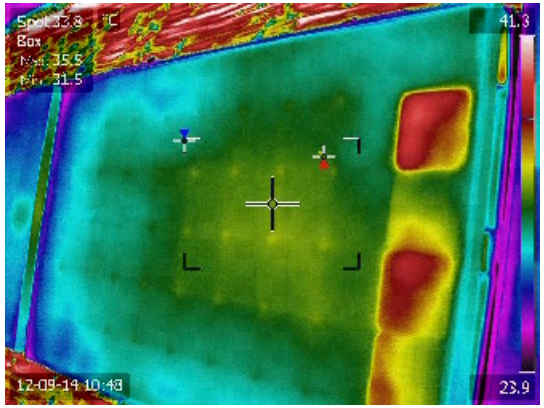
CTO = Critical to operation
ETO = Essential to operation
NON = Non-essential to operation
UNC = Un-Classified
NI = Not Issued

Current Inspection No: 1896 **September 15, 2012**

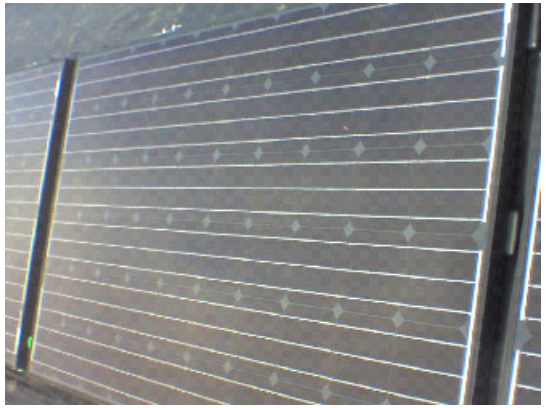
Report Date: **15/09/2012**

ROW B \ B14

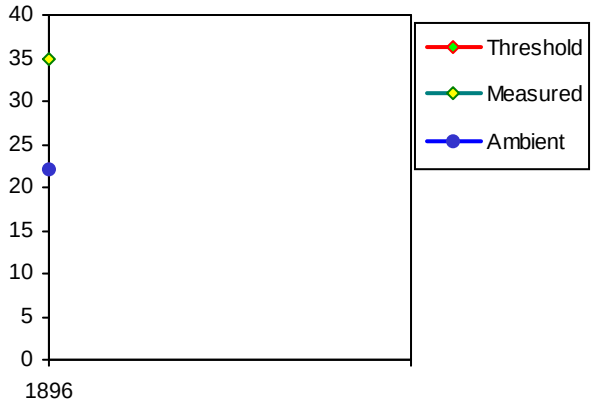
Equipment ID: **-** **Work Order:** **NI** **Operation Priority:** **CTO**



IR_11339.jpg



DC_11340.jpg



Inspection History:

Inspection No	Date Inspected	Test Status	Measured Temp	Threshold Temp	Ambient Temp	Status Note	Customer Notes
1896	14/09/2012	TESTED	35 C	22 C	22 C		

Equipment Baseline Trending Report
By Inspection Order

Key

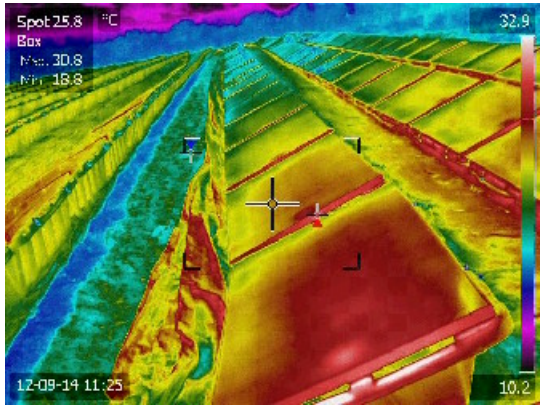
CTO = Critical to operation
ETO = Essential to operation
NON = Non-essential to operation
UNC = Un-Classified
NI = Not Issued

Current Inspection No: 1896 **September 15, 2012**

Report Date: **15/09/2012**

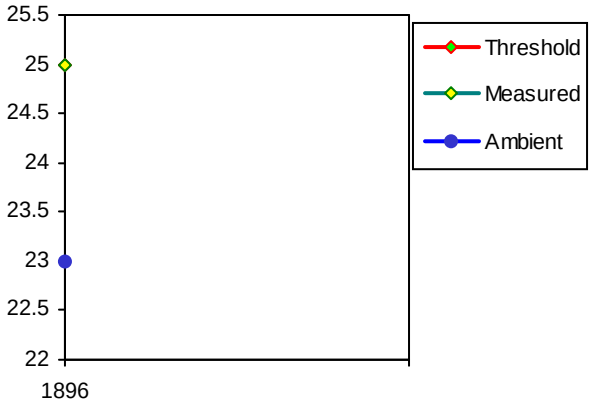
ROW C

Equipment ID: **-** **Work Order:** **NI** **Operation Priority:** **CTO**



IR_11353.jpg

DC_11354.jpg



Inspection History:

Inspection No	Date Inspected	Test Status	Measured Temp	Threshold Temp	Ambient Temp	Status Note	Customer Notes
1896	14/09/2012	TESTED	25 C	25 C	23 C		

Equipment Baseline Trending Report
By Inspection Order

Key

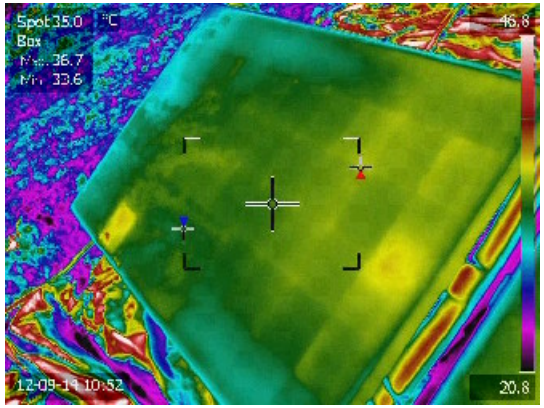
CTO = Critical to operation
ETO = Essential to operation
NON = Non-essential to operation
UNC = Un-Classified
NI = Not Issued

Current Inspection No: 1896 **September 15, 2012**

Report Date: **15/09/2012**

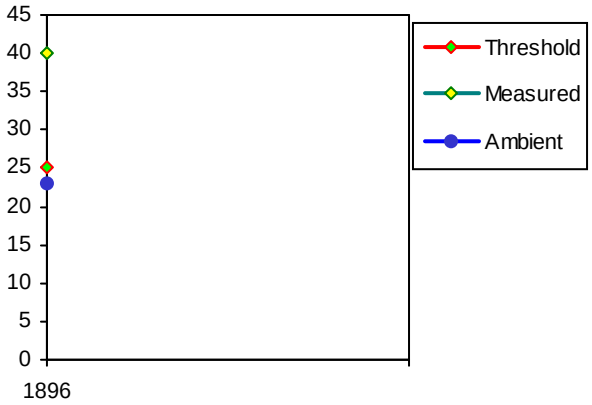
ROW C \ C32

Equipment ID: **-** **Work Order:** **NI** **Operation Priority:** **CTO**



IR_11341.jpg

DC_11342.jpg



Inspection History:

Inspection No	Date Inspected	Test Status	Measured Temp	Threshold Temp	Ambient Temp	Status Note	Customer Notes
1896	14/09/2012	TESTED	40 C	25 C	23 C		

Equipment Baseline Trending Report
By Inspection Order

Key

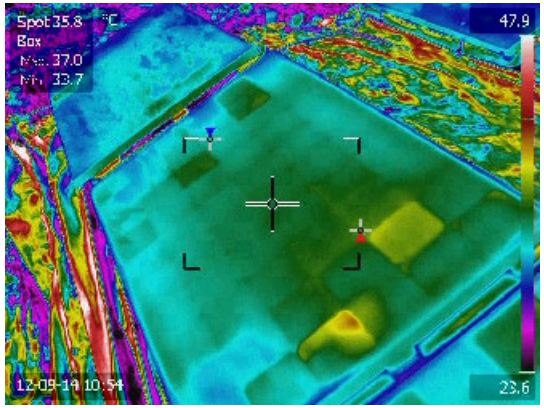
CTO = Critical to operation
ETO = Essential to operation
NON = Non-essential to operation
UNC = Un-Classified
NI = Not Issued

Current Inspection No: 1896 **September 15, 2012**

Report Date: **15/09/2012**

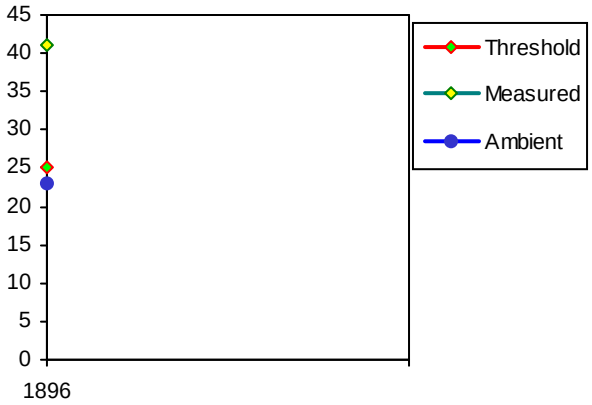
ROW C \ C31

Equipment ID: **-** **Work Order:** **NI** **Operation Priority:** **CTO**



IR_11343.jpg

DC_11344.jpg



Inspection History:

Inspection No	Date Inspected	Test Status	Measured Temp	Threshold Temp	Ambient Temp	Status Note	Customer Notes
1896	14/09/2012	TESTED	41 C	25 C	23 C		

Equipment Baseline Trending Report
By Inspection Order

Key

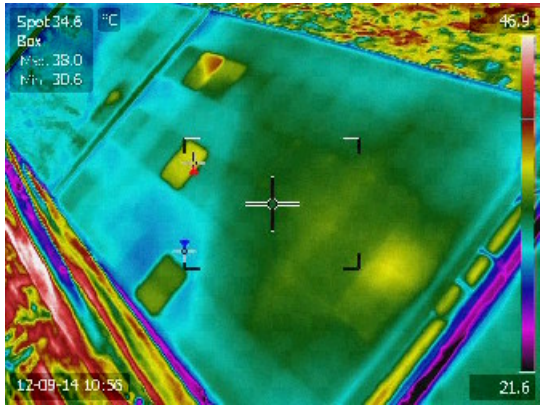
CTO = Critical to operation
ETO = Essential to operation
NON = Non-essential to operation
UNC = Un-Classified
NI = Not Issued

Current Inspection No: 1896 **September 15, 2012**

Report Date: **15/09/2012**

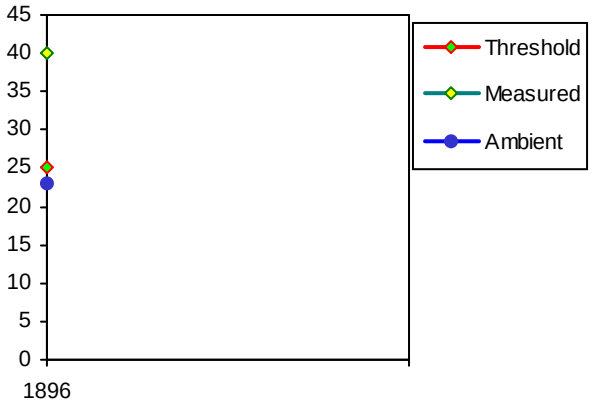
ROW C \ C30

Equipment ID: **-** **Work Order:** **NI** **Operation Priority:** **CTO**



IR_11345.jpg

DC_11346.jpg



Inspection History:

Inspection No	Date Inspected	Test Status	Measured Temp	Threshold Temp	Ambient Temp	Status Note	Customer Notes
1896	14/09/2012	TESTED	40 C	25 C	23 C		

Equipment Baseline Trending Report
By Inspection Order

Key

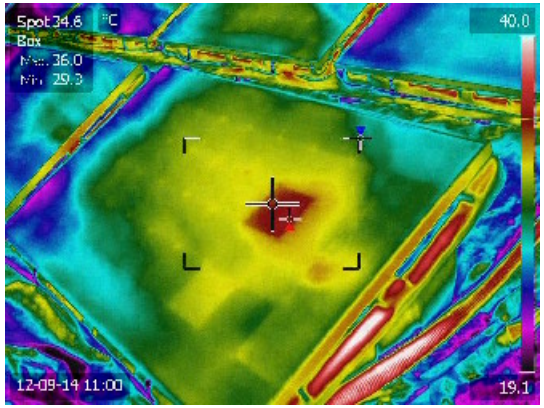
CTO = Critical to operation
ETO = Essential to operation
NON = Non-essential to operation
UNC = Un-Classified
NI = Not Issued

Current Inspection No: 1896 **September 15, 2012**

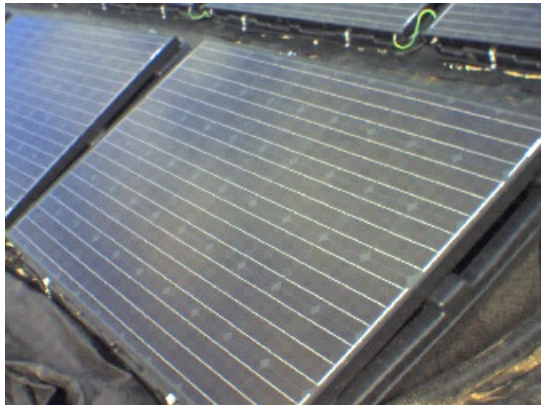
Report Date: **15/09/2012**

ROW C \ C1

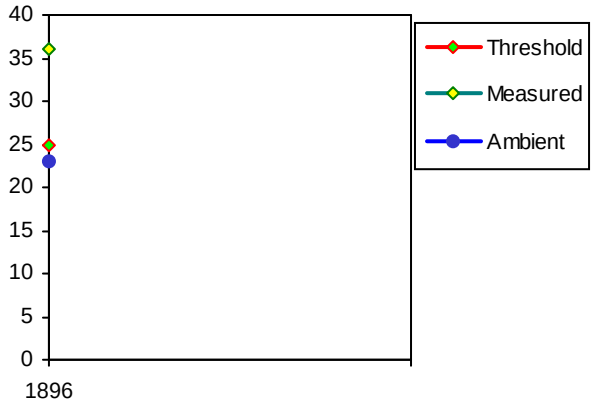
Equipment ID: **-** **Work Order:** **NI** **Operation Priority:** **CTO**



IR_11347.jpg



DC_11348.jpg



Inspection History:

Inspection No	Date Inspected	Test Status	Measured Temp	Threshold Temp	Ambient Temp	Status Note	Customer Notes
1896	14/09/2012	TESTED	36 C	25 C	23 C		

Equipment Baseline Trending Report
By Inspection Order

Key

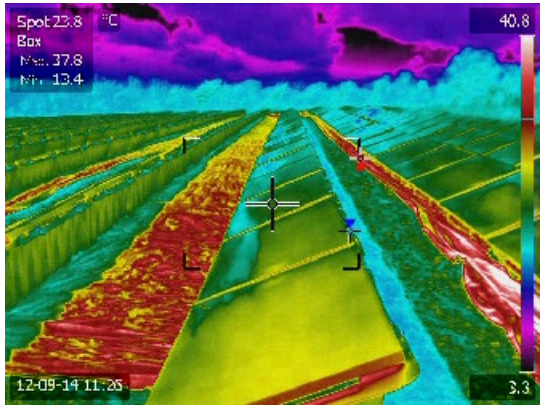
CTO = Critical to operation
ETO = Essential to operation
NON = Non-essential to operation
UNC = Un-Classified
NI = Not Issued

Current Inspection No: 1896 **September 15, 2012**

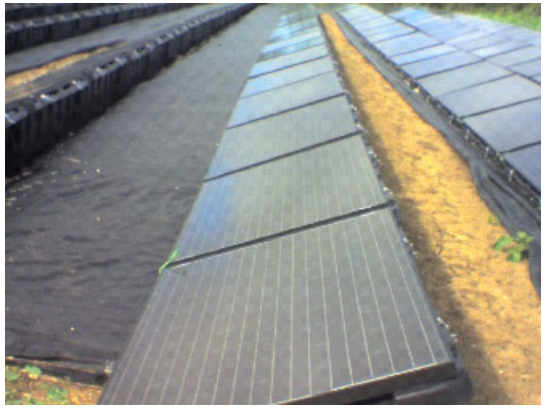
Report Date: **15/09/2012**

ROW D

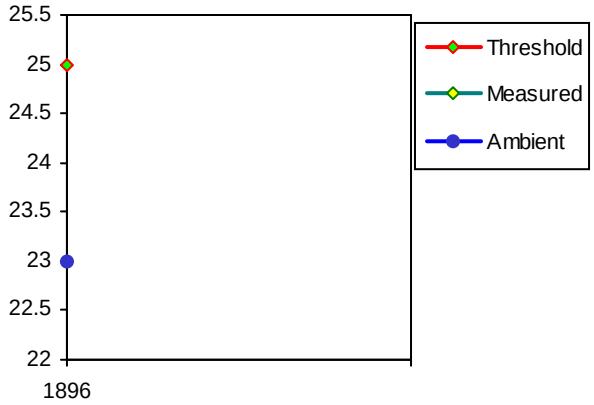
Equipment ID: **-** **Work Order:** **NI** **Operation Priority:** **CTO**



IR_11355.jpg



DC_11356.jpg



Inspection History:

Inspection No	Date Inspected	Test Status	Measured Temp	Threshold Temp	Ambient Temp	Status Note	Customer Notes
1896	14/09/2012	TESTED	23 C	25 C	23 C		

Equipment Baseline Trending Report
By Inspection Order

Key

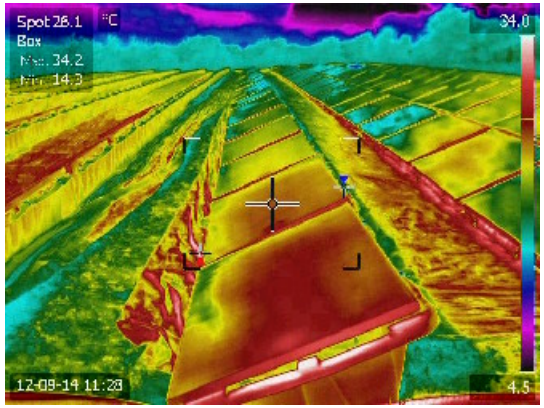
CTO = Critical to operation
ETO = Essential to operation
NON = Non-essential to operation
UNC = Un-Classified
NI = Not Issued

Current Inspection No: 1896 **September 15, 2012**

Report Date: **15/09/2012**

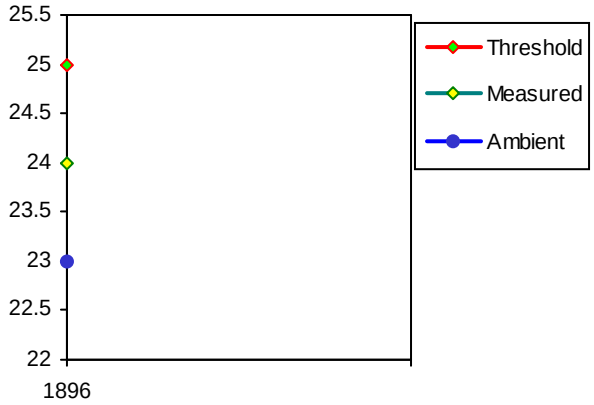
ROW E

Equipment ID: **-** **Work Order:** **NI** **Operation Priority:** **CTO**



IR_11357.jpg

DC_11358.jpg



Inspection History:

Inspection No	Date Inspected	Test Status	Measured Temp	Threshold Temp	Ambient Temp	Status Note	Customer Notes
1896	14/09/2012	TESTED	24 C	25 C	23 C		

Equipment Baseline Trending Report
By Inspection Order

Key

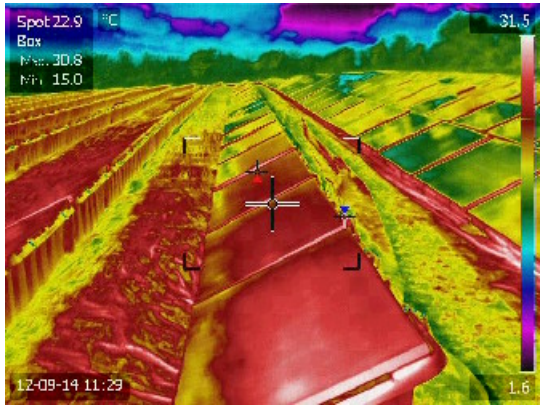
CTO = Critical to operation
ETO = Essential to operation
NON = Non-essential to operation
UNC = Un-Classified
NI = Not Issued

Current Inspection No: 1896 **September 15, 2012**

Report Date: **15/09/2012**

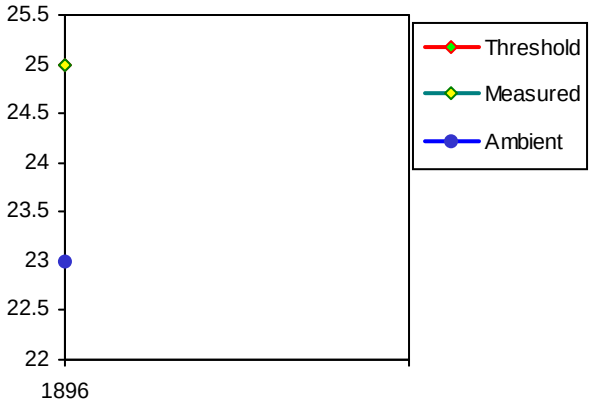
ROW F

Equipment ID: **-** **Work Order:** **NI** **Operation Priority:** **CTO**



IR_11359.jpg

DC_11360.jpg



Inspection History:

Inspection No	Date Inspected	Test Status	Measured Temp	Threshold Temp	Ambient Temp	Status Note	Customer Notes
1896	14/09/2012	TESTED	25 C	25 C	23 C		

Equipment Baseline Trending Report
By Inspection Order

Key

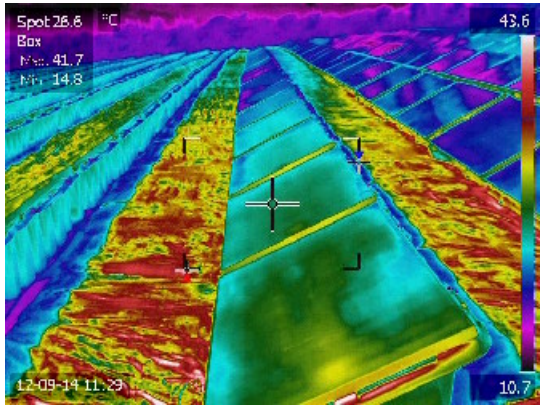
CTO = Critical to operation
ETO = Essential to operation
NON = Non-essential to operation
UNC = Un-Classified
NI = Not Issued

Current Inspection No: 1896 **September 15, 2012**

Report Date: **15/09/2012**

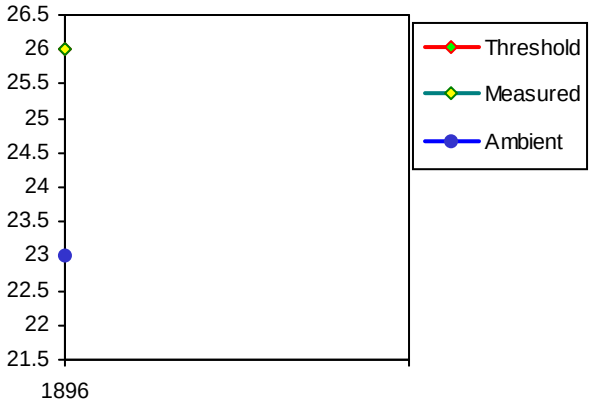
ROW G

Equipment ID: **-** **Work Order:** **NI** **Operation Priority:** **CTO**



IR_11361.jpg

DC_11362.jpg



Inspection History:

Inspection No	Date Inspected	Test Status	Measured Temp	Threshold Temp	Ambient Temp	Status Note	Customer Notes
1896	14/09/2012	TESTED	26 C	26 C	23 C		

Equipment Baseline Trending Report
By Inspection Order

Key

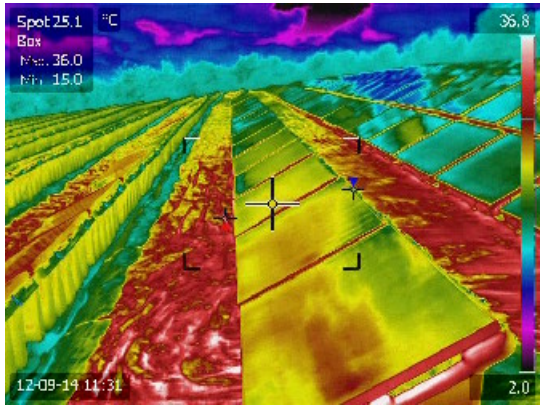
CTO = Critical to operation
ETO = Essential to operation
NON = Non-essential to operation
UNC = Un-Classified
NI = Not Issued

Current Inspection No: 1896 **September 15, 2012**

Report Date: **15/09/2012**

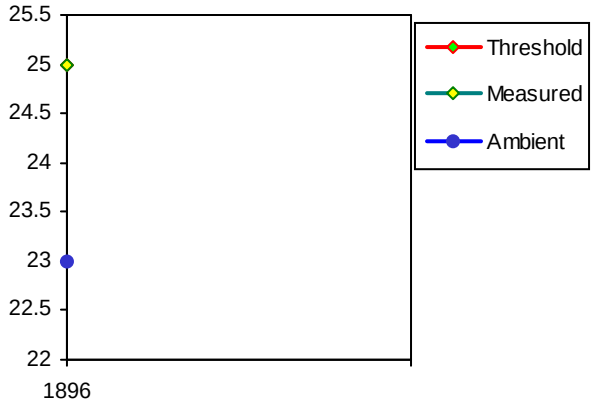
ROW H

Equipment ID: **-** **Work Order:** **NI** **Operation Priority:** **CTO**



IR_11363.jpg

DC_11364.jpg



Inspection History:

Inspection No	Date Inspected	Test Status	Measured Temp	Threshold Temp	Ambient Temp	Status Note	Customer Notes
1896	14/09/2012	TESTED	25 C	25 C	23 C		

Equipment Baseline Trending Report
By Inspection Order

Key

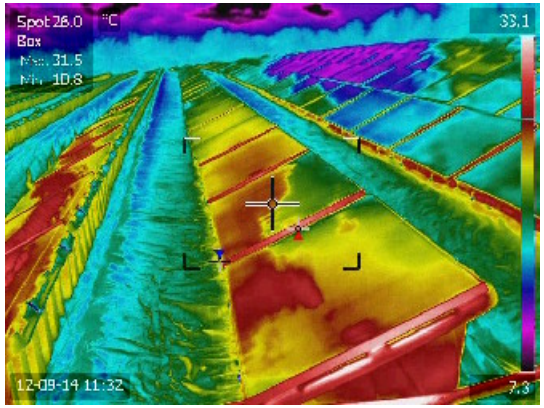
CTO = Critical to operation
ETO = Essential to operation
NON = Non-essential to operation
UNC = Un-Classified
NI = Not Issued

Current Inspection No: 1896 **September 15, 2012**

Report Date: **15/09/2012**

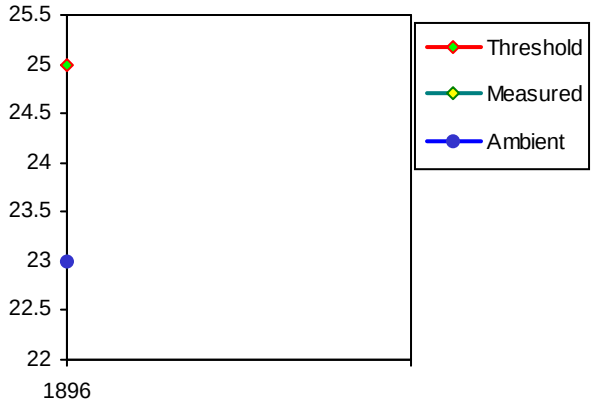
ROW I

Equipment ID: **-** **Work Order:** **NI** **Operation Priority:** **CTO**



IR_11365.jpg

DC_11366.jpg



Inspection History:

Inspection No	Date Inspected	Test Status	Measured Temp	Threshold Temp	Ambient Temp	Status Note	Customer Notes
1896	14/09/2012	TESTED	23 C	25 C	23 C		

Equipment Baseline Trending Report
By Inspection Order

Key

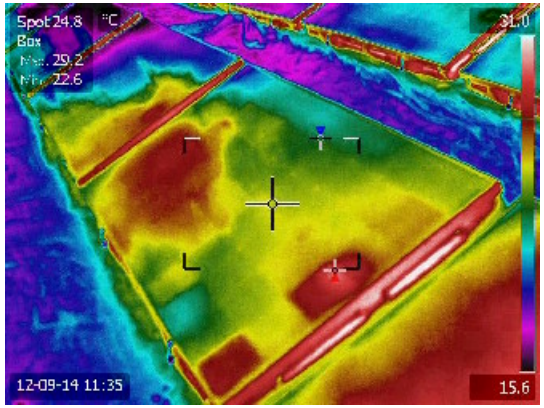
CTO = Critical to operation
ETO = Essential to operation
NON = Non-essential to operation
UNC = Un-Classified
NI = Not Issued

Current Inspection No: 1896 **September 15, 2012**

Report Date: **15/09/2012**

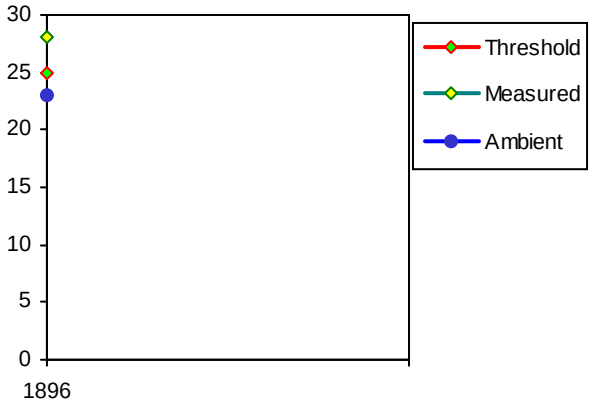
ROW I \ I15

Equipment ID: **-** **Work Order:** **NI** **Operation Priority:** **CTO**



IR_11367.jpg

DC_11368.jpg



Inspection History:

Inspection No	Date Inspected	Test Status	Measured Temp	Threshold Temp	Ambient Temp	Status Note	Customer Notes
1896	14/09/2012	TESTED	28 C	25 C	23 C		

Equipment Baseline Trending Report
By Inspection Order

Key

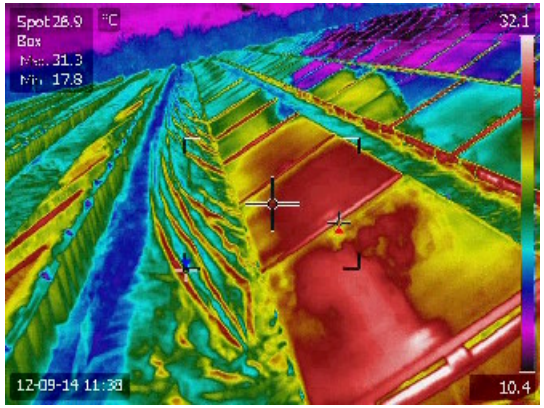
CTO = Critical to operation
ETO = Essential to operation
NON = Non-essential to operation
UNC = Un-Classified
NI = Not Issued

Current Inspection No: 1896 **September 15, 2012**

Report Date: **15/09/2012**

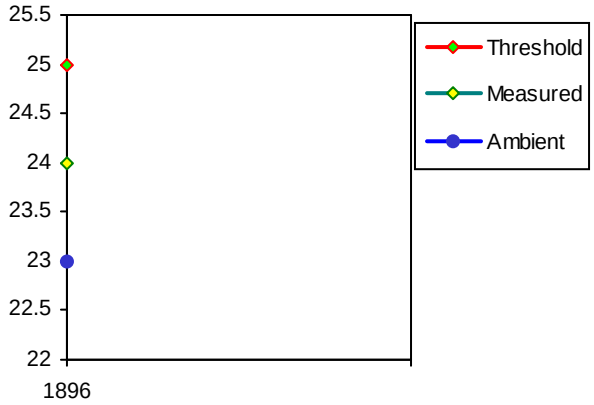
ROW J

Equipment ID: **-** **Work Order:** **NI** **Operation Priority:** **CTO**



IR_11369.jpg

DC_11370.jpg



Inspection History:

Inspection No	Date Inspected	Test Status	Measured Temp	Threshold Temp	Ambient Temp	Status Note	Customer Notes
1896	14/09/2012	TESTED	24 C	25 C	23 C		

Equipment Baseline Trending Report By Inspection Order

Key

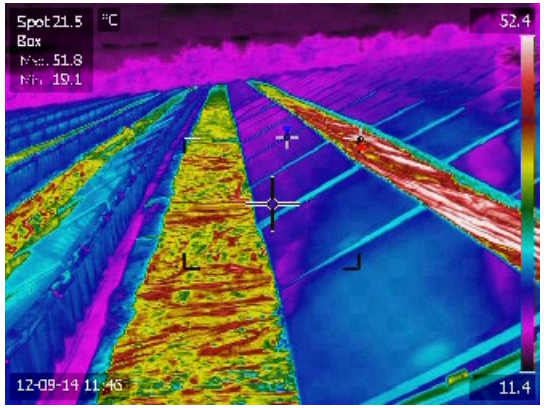
CTO = Critical to operation
ETO = Essential to operation
NON = Non-essential to operation
UNC = Un-Classified
NI = Not Issued

Current Inspection No: 1896 **September 15, 2012**

Report Date: **15/09/2012**

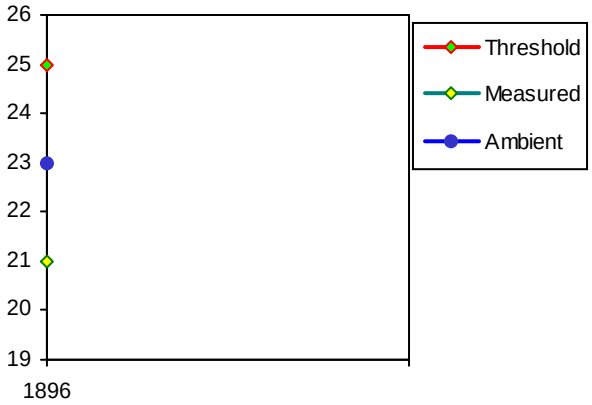
ROW K

Equipment ID: **-** **Work Order:** **K** **Operation Priority:** **CTO**



IR_11371.jpg

DC_11372.jpg



Inspection History:

Inspection No	Date Inspected	Test Status	Measured Temp	Threshold Temp	Ambient Temp	Status Note	Customer Notes
1896	14/09/2012	TESTED	21 C	25 C	23 C		

Equipment Baseline Trending Report
By Inspection Order

Key

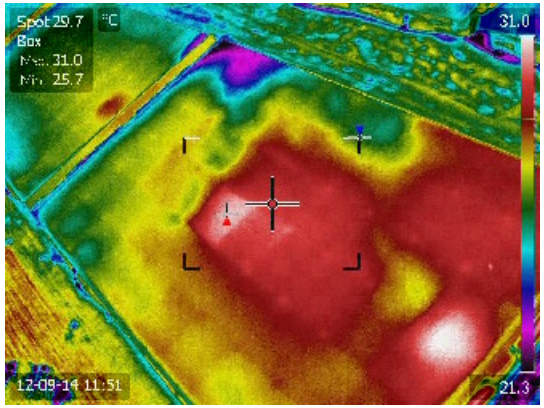
CTO = Critical to operation
ETO = Essential to operation
NON = Non-essential to operation
UNC = Un-Classified
NI = Not Issued

Current Inspection No: 1896 **September 15, 2012**

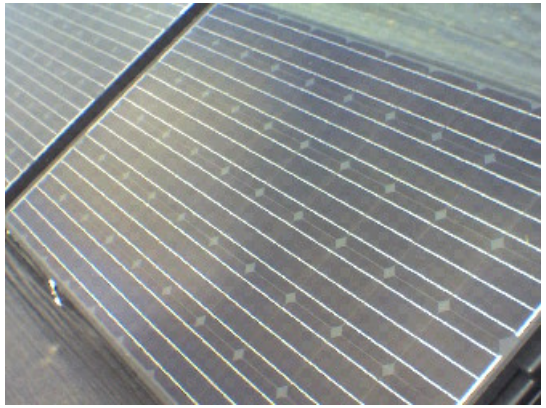
Report Date: **15/09/2012**

ROW K \ K20

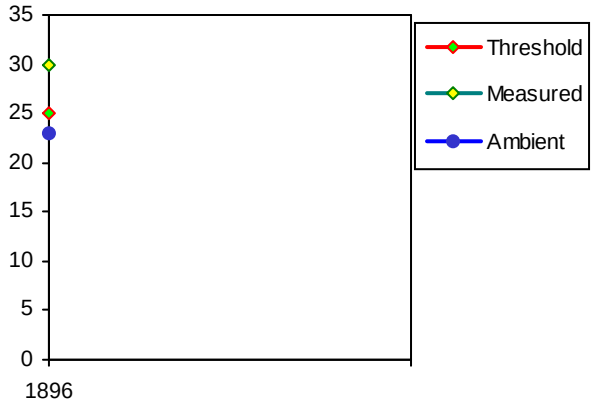
Equipment ID: **-** **Work Order:** **NI** **Operation Priority:** **CTO**



IR_11373.jpg



DC_11374.jpg



Inspection History:

Inspection No	Date Inspected	Test Status	Measured Temp	Threshold Temp	Ambient Temp	Status Note	Customer Notes
1896	14/09/2012	TESTED	30 C	25 C	23 C		

Equipment Baseline Trending Report
By Inspection Order

Key

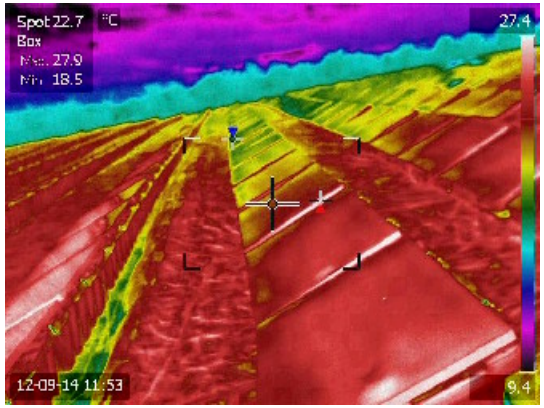
CTO = Critical to operation
ETO = Essential to operation
NON = Non-essential to operation
UNC = Un-Classified
NI = Not Issued

Current Inspection No: 1896 **September 15, 2012**

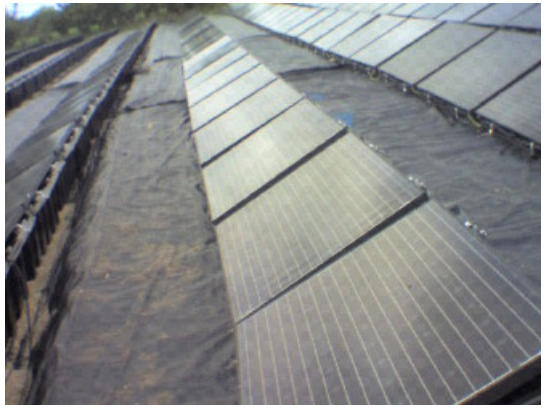
Report Date: **15/09/2012**

ROW L

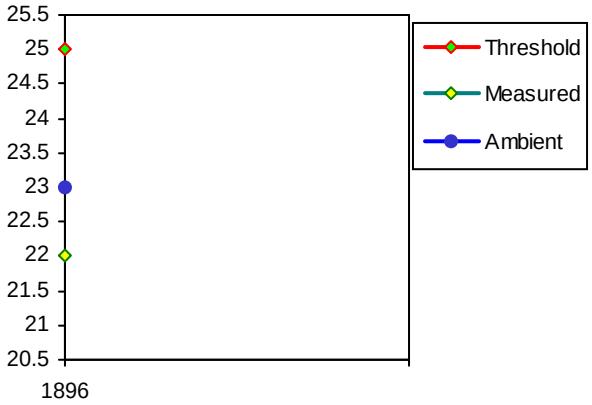
Equipment ID: **-** **Work Order:** **NI** **Operation Priority:** **CTO**



IR_11375.jpg



DC_11376.jpg



Inspection History:

Inspection No	Date Inspected	Test Status	Measured Temp	Threshold Temp	Ambient Temp	Status Note	Customer Notes
1896	14/09/2012	TESTED	22 C	25 C	23 C		

Equipment Baseline Trending Report
By Inspection Order

Key

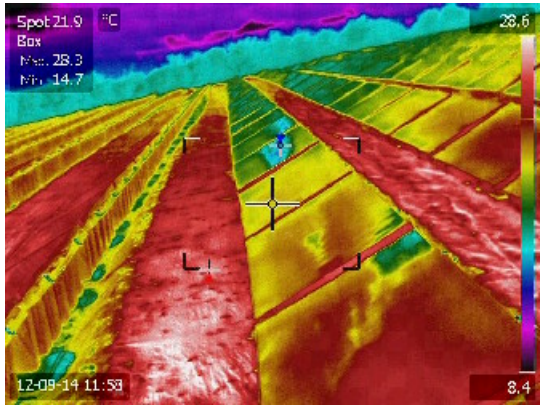
CTO = Critical to operation
ETO = Essential to operation
NON = Non-essential to operation
UNC = Un-Classified
NI = Not Issued

Current Inspection No: 1896 **September 15, 2012**

Report Date: **15/09/2012**

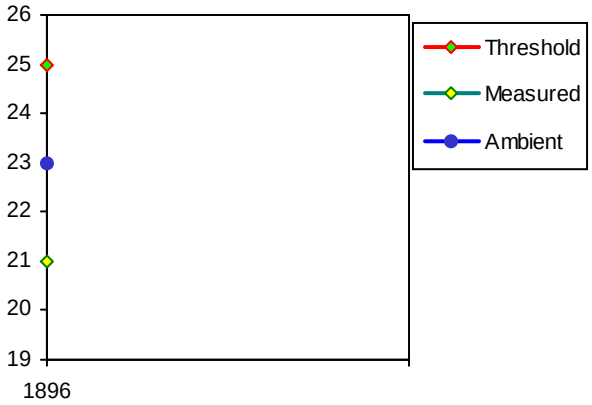
ROW M

Equipment ID: **-** **Work Order:** **NI** **Operation Priority:** **CTO**



IR_11377.jpg

DC_11378.jpg



Inspection History:

Inspection No	Date Inspected	Test Status	Measured Temp	Threshold Temp	Ambient Temp	Status Note	Customer Notes
1896	14/09/2012	TESTED	21 C	25 C	23 C		

Equipment Baseline Trending Report By Inspection Order

Key

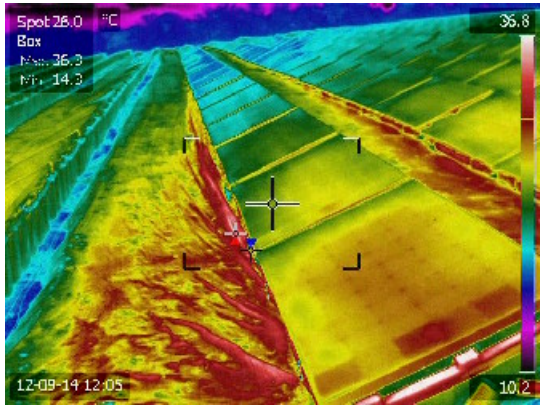
CTO = Critical to operation
ETO = Essential to operation
NON = Non-essential to operation
UNC = Un-Classified
NI = Not Issued

Current Inspection No: 1896 **September 15, 2012**

Report Date: **15/09/2012**

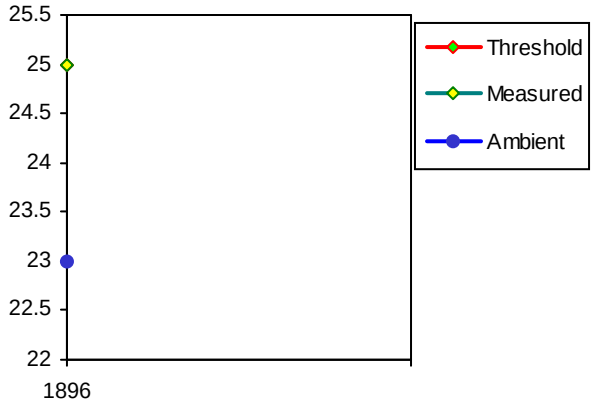
ROW N

Equipment ID: **-** **Work Order:** **NI** **Operation Priority:** **CTO**



IR_11379.jpg

DC_11380.jpg



Inspection History:

Inspection No	Date Inspected	Test Status	Measured Temp	Threshold Temp	Ambient Temp	Status Note	Customer Notes
1896	14/09/2012	TESTED	25 C	25 C	23 C		

Equipment Baseline Trending Report
By Inspection Order

Key

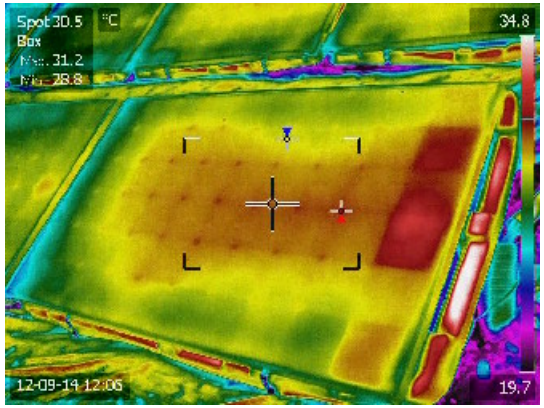
CTO = Critical to operation
ETO = Essential to operation
NON = Non-essential to operation
UNC = Un-Classified
NI = Not Issued

Current Inspection No: 1896 **September 15, 2012**

Report Date: **15/09/2012**

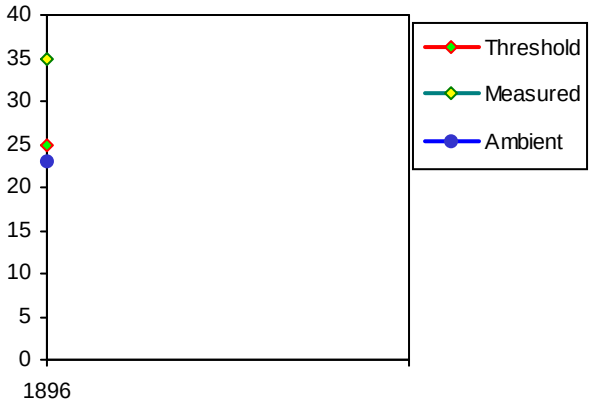
ROW N \ N1

Equipment ID: **-** **Work Order:** **NI** **Operation Priority:** **CTO**



IR_11381.jpg

DC_11382.jpg



Inspection History:

Inspection No	Date Inspected	Test Status	Measured Temp	Threshold Temp	Ambient Temp	Status Note	Customer Notes
1896	14/09/2012	TESTED	35 C	25 C	23 C		

Equipment Baseline Trending Report
By Inspection Order

Key

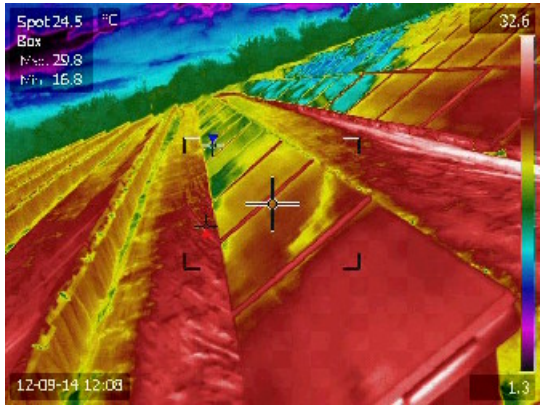
CTO = Critical to operation
ETO = Essential to operation
NON = Non-essential to operation
UNC = Un-Classified
NI = Not Issued

Current Inspection No: 1896 **September 15, 2012**

Report Date: **15/09/2012**

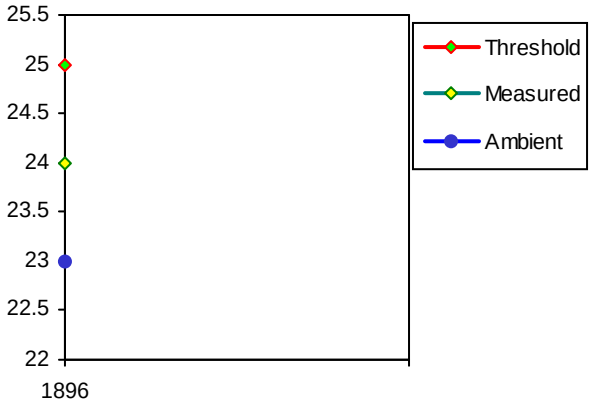
ROW O

Equipment ID: **-** **Work Order:** **NI** **Operation Priority:** **CTO**



IR_11383.jpg

DC_11384.jpg



Inspection History:

Inspection No	Date Inspected	Test Status	Measured Temp	Threshold Temp	Ambient Temp	Status Note	Customer Notes
1896	14/09/2012	TESTED	24 C	25 C	23 C		

Equipment Baseline Trending Report
By Inspection Order

Key

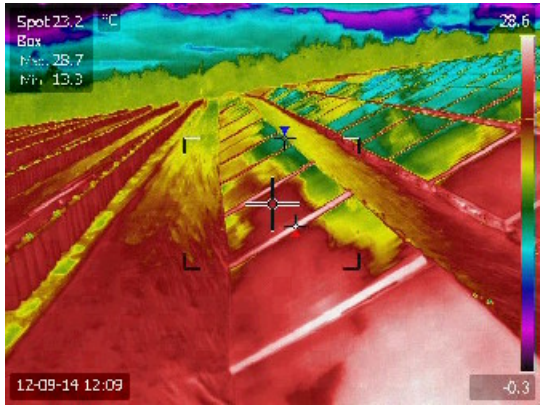
CTO = Critical to operation
ETO = Essential to operation
NON = Non-essential to operation
UNC = Un-Classified
NI = Not Issued

Current Inspection No: 1896 **September 15, 2012**

Report Date: **15/09/2012**

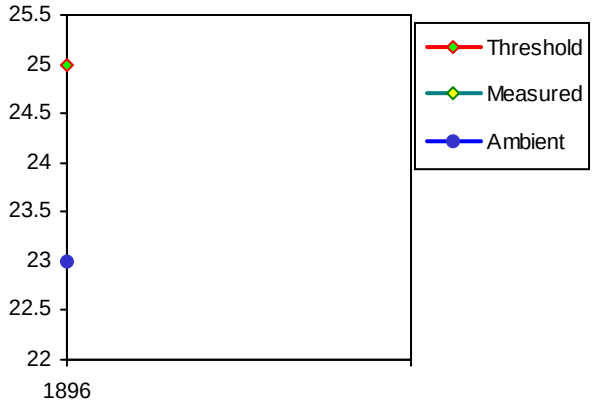
ROW P

Equipment ID: **-** **Work Order:** **NI** **Operation Priority:** **CTO**



IR_11385.jpg

DC_11386.jpg



Inspection History:

Inspection No	Date Inspected	Test Status	Measured Temp	Threshold Temp	Ambient Temp	Status Note	Customer Notes
1896	14/09/2012	TESTED	23 C	25 C	23 C		

Equipment Baseline Trending Report
By Inspection Order

Key

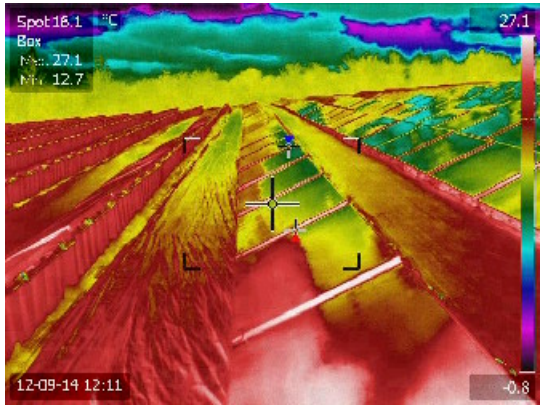
CTO = Critical to operation
ETO = Essential to operation
NON = Non-essential to operation
UNC = Un-Classified
NI = Not Issued

Current Inspection No: 1896 **September 15, 2012**

Report Date: **15/09/2012**

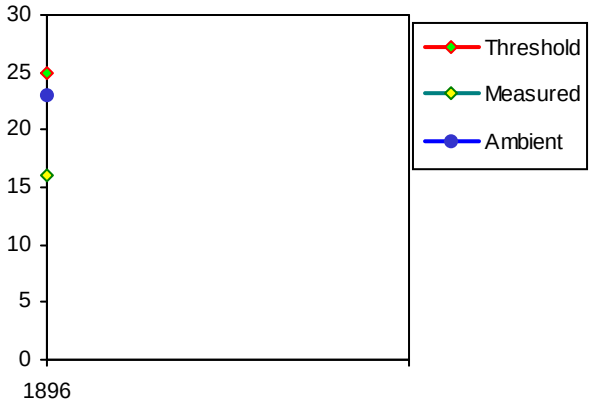
ROW Q

Equipment ID: **-** **Work Order:** **NI** **Operation Priority:** **CTO**



IR_11387.jpg

DC_11388.jpg



Inspection History:

Inspection No	Date Inspected	Test Status	Measured Temp	Threshold Temp	Ambient Temp	Status Note	Customer Notes
1896	14/09/2012	TESTED	16 C	25 C	23 C		

Equipment Baseline Trending Report
By Inspection Order

Key

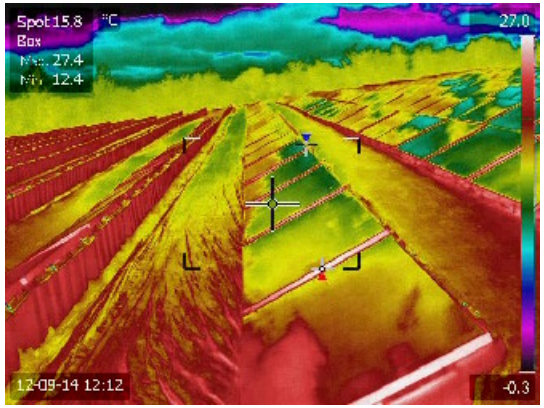
CTO = Critical to operation
ETO = Essential to operation
NON = Non-essential to operation
UNC = Un-Classified
NI = Not Issued

Current Inspection No: 1896 **September 15, 2012**

Report Date: **15/09/2012**

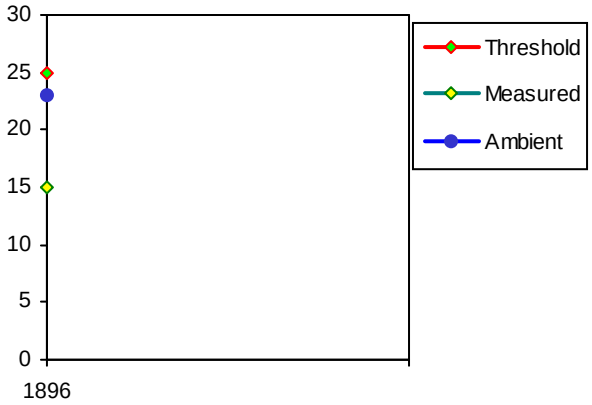
ROW R

Equipment ID: **-** **Work Order:** **NI** **Operation Priority:** **CTO**



IR_11389.jpg

DC_11390.jpg



Inspection History:

Inspection No	Date Inspected	Test Status	Measured Temp	Threshold Temp	Ambient Temp	Status Note	Customer Notes
1896	14/09/2012	TESTED	15 C	25 C	23 C		

Equipment Baseline Trending Report
By Inspection Order

Key

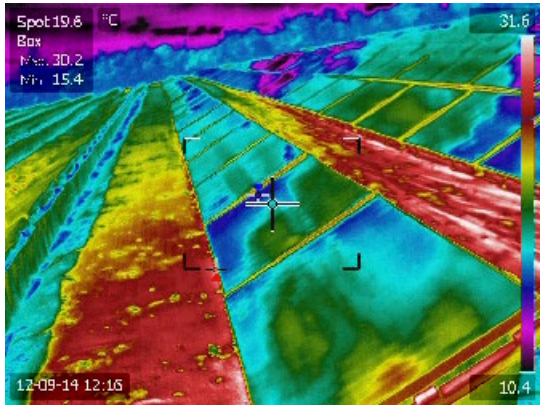
CTO = Critical to operation
ETO = Essential to operation
NON = Non-essential to operation
UNC = Un-Classified
NI = Not Issued

Current Inspection No: 1896 **September 15, 2012**

Report Date: **15/09/2012**

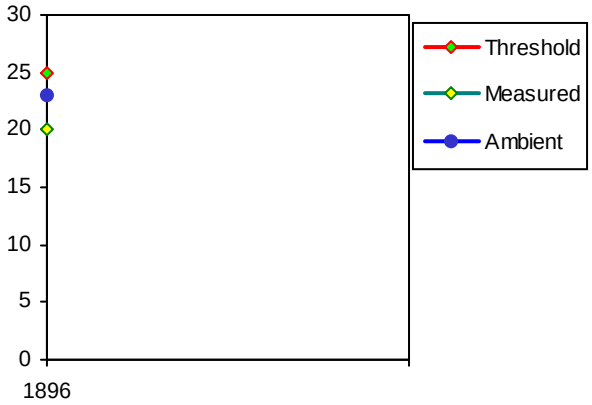
ROW S

Equipment ID: **-** **Work Order:** **NI** **Operation Priority:** **CTO**



IR_11391.jpg

DC_11392.jpg



Inspection History:

Inspection No	Date Inspected	Test Status	Measured Temp	Threshold Temp	Ambient Temp	Status Note	Customer Notes
1896	14/09/2012	TESTED	20 C	25 C	23 C		

Equipment Baseline Trending Report
By Inspection Order

Key

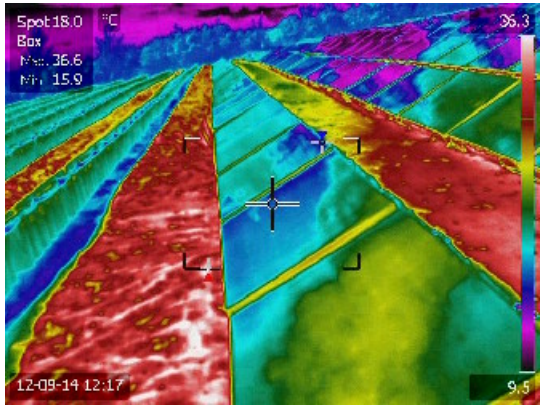
CTO = Critical to operation
ETO = Essential to operation
NON = Non-essential to operation
UNC = Un-Classified
NI = Not Issued

Current Inspection No: 1896 **September 15, 2012**

Report Date: **15/09/2012**

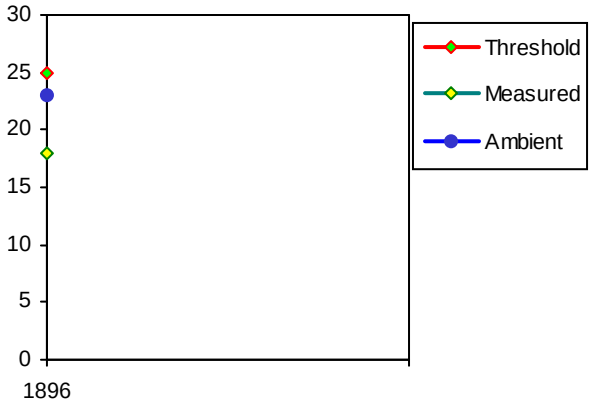
ROW T

Equipment ID: **-** **Work Order:** **NI** **Operation Priority:** **CTO**



IR_11393.jpg

DC_11394.jpg



Inspection History:

Inspection No	Date Inspected	Test Status	Measured Temp	Threshold Temp	Ambient Temp	Status Note	Customer Notes
1896	14/09/2012	TESTED	18 C	25 C	23 C		

Equipment Baseline Trending Report
By Inspection Order

Key

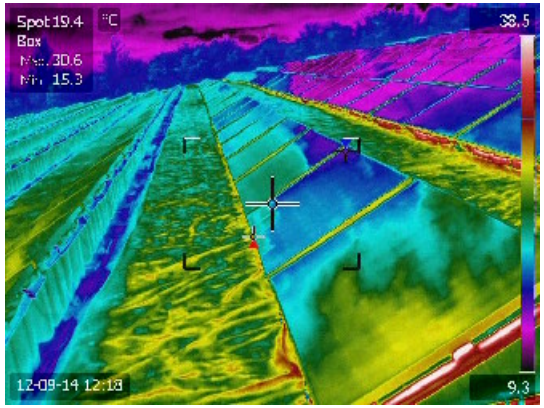
CTO = Critical to operation
ETO = Essential to operation
NON = Non-essential to operation
UNC = Un-Classified
NI = Not Issued

Current Inspection No: 1896 **September 15, 2012**

Report Date: **15/09/2012**

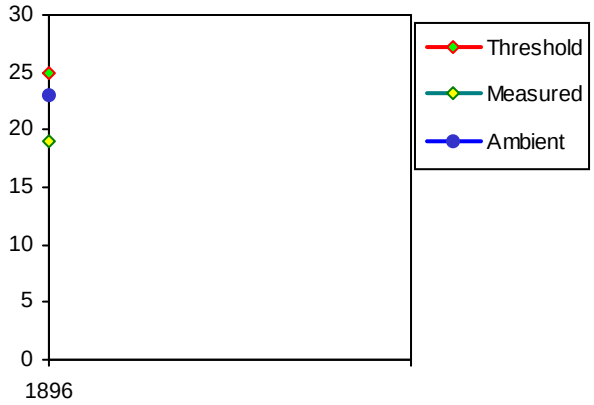
ROW U

Equipment ID: **-** **Work Order:** **NI** **Operation Priority:** **CTO**



IR_11395.jpg

DC_11396.jpg



Inspection History:

Inspection No	Date Inspected	Test Status	Measured Temp	Threshold Temp	Ambient Temp	Status Note	Customer Notes
1896	14/09/2012	TESTED	19 C	25 C	23 C		

Equipment Baseline Trending Report By Inspection Order

Key

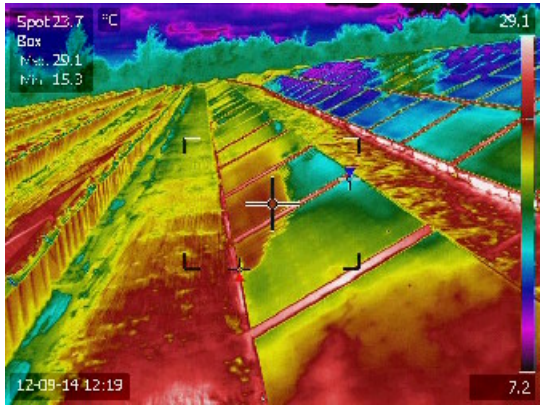
CTO = Critical to operation
ETO = Essential to operation
NON = Non-essential to operation
UNC = Un-Classified
NI = Not Issued

Current Inspection No: 1896 **September 15, 2012**

Report Date: **15/09/2012**

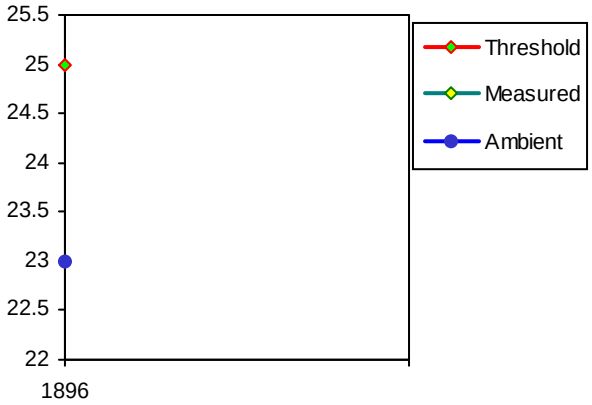
ROW V

Equipment ID: **-** **Work Order:** **NI** **Operation Priority:** **CTO**



IR_11397.jpg

DC_11398.jpg



Inspection History:

Inspection No	Date Inspected	Test Status	Measured Temp	Threshold Temp	Ambient Temp	Status Note	Customer Notes
1896	14/09/2012	TESTED	23 C	25 C	23 C		

Equipment Baseline Trending Report
By Inspection Order

Key

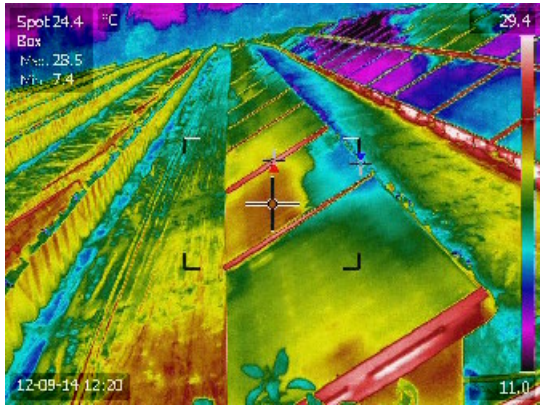
CTO = Critical to operation
ETO = Essential to operation
NON = Non-essential to operation
UNC = Un-Classified
NI = Not Issued

Current Inspection No: 1896 **September 15, 2012**

Report Date: **15/09/2012**

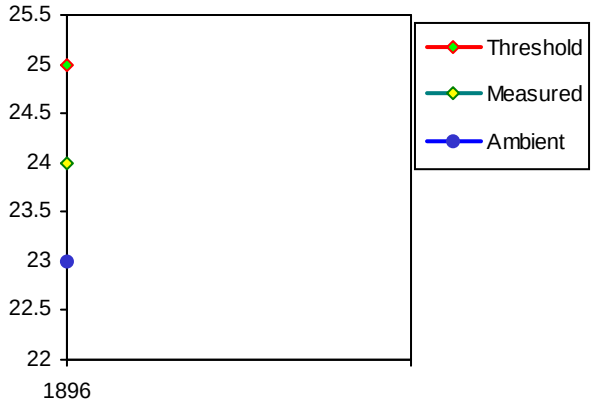
ROW W

Equipment ID: **-** **Work Order:** **NI** **Operation Priority:** **CTO**



IR_11399.jpg

DC_11400.jpg



Inspection History:

Inspection No	Date Inspected	Test Status	Measured Temp	Threshold Temp	Ambient Temp	Status Note	Customer Notes
1896	14/09/2012	TESTED	24 C	25 C	23 C		

Equipment Baseline Trending Report
By Inspection Order

Key

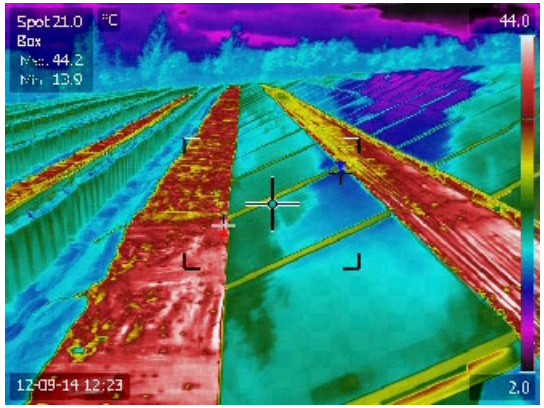
CTO = Critical to operation
ETO = Essential to operation
NON = Non-essential to operation
UNC = Un-Classified
NI = Not Issued

Current Inspection No: 1896 **September 15, 2012**

Report Date: **15/09/2012**

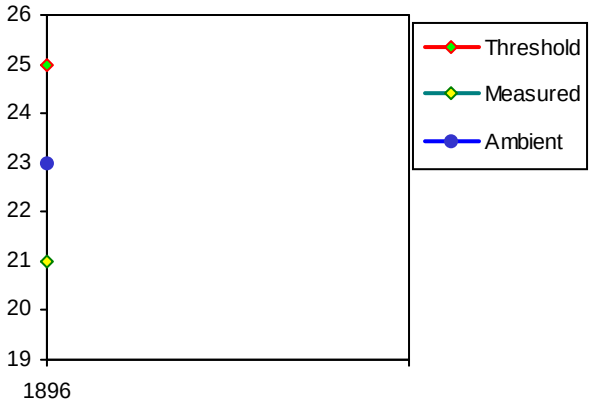
ROW X

Equipment ID: **-** **Work Order:** **NI** **Operation Priority:** **CTO**



IR_11401.jpg

DC_11402.jpg



Inspection History:

Inspection No	Date Inspected	Test Status	Measured Temp	Threshold Temp	Ambient Temp	Status Note	Customer Notes
1896	14/09/2012	TESTED	21 C	25 C	23 C		

Equipment Baseline Trending Report
By Inspection Order

Key

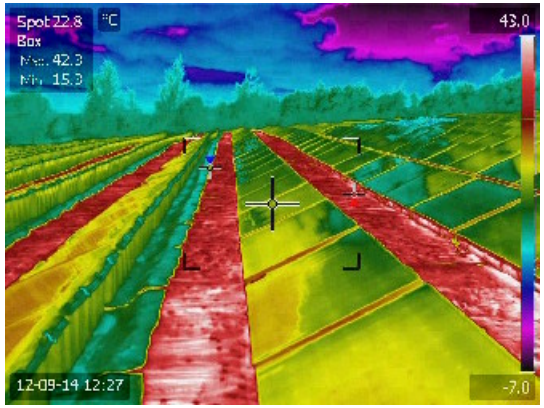
CTO = Critical to operation
ETO = Essential to operation
NON = Non-essential to operation
UNC = Un-Classified
NI = Not Issued

Current Inspection No: 1896 **September 15, 2012**

Report Date: **15/09/2012**

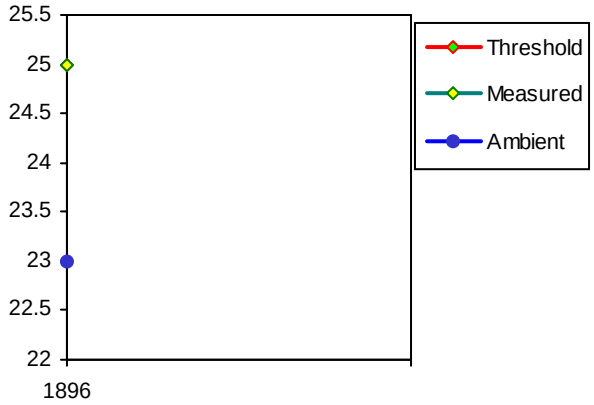
ROW Y

Equipment ID: **-** **Work Order:** **NI** **Operation Priority:** **CTO**



IR_11403.jpg

DC_11404.jpg



Inspection History:

Inspection No	Date Inspected	Test Status	Measured Temp	Threshold Temp	Ambient Temp	Status Note	Customer Notes
1896	14/09/2012	TESTED	25 C	25 C	23 C		

Equipment Baseline Trending Report
By Inspection Order

Key

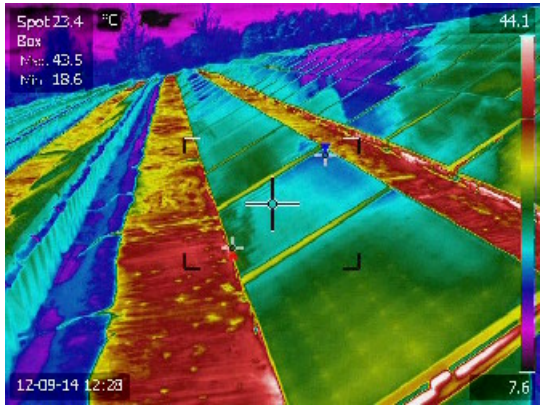
CTO = Critical to operation
ETO = Essential to operation
NON = Non-essential to operation
UNC = Un-Classified
NI = Not Issued

Current Inspection No: 1896 **September 15, 2012**

Report Date: **15/09/2012**

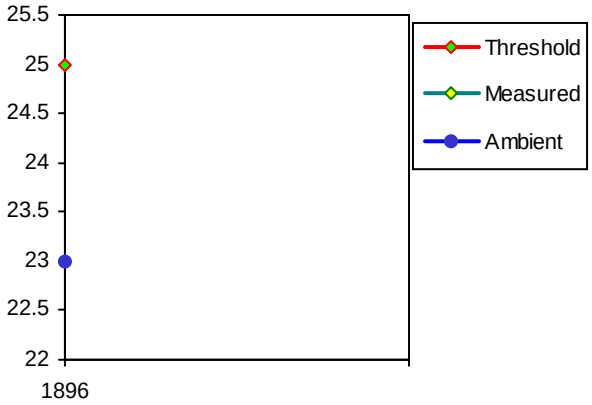
ROW Z

Equipment ID: **-** **Work Order:** **NI** **Operation Priority:** **CTO**



IR_11405.jpg

DC_11406.jpg



Inspection History:

Inspection No	Date Inspected	Test Status	Measured Temp	Threshold Temp	Ambient Temp	Status Note	Customer Notes
1896	14/09/2012	TESTED	23 C	25 C	23 C		

Equipment Baseline Trending Report
By Inspection Order

Key

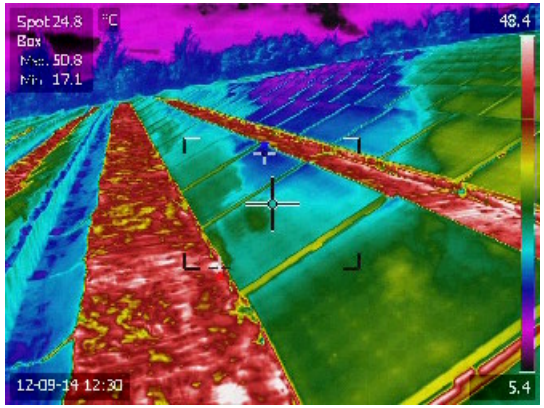
CTO = Critical to operation
ETO = Essential to operation
NON = Non-essential to operation
UNC = Un-Classified
NI = Not Issued

Current Inspection No: 1896 **September 15, 2012**

Report Date: **15/09/2012**

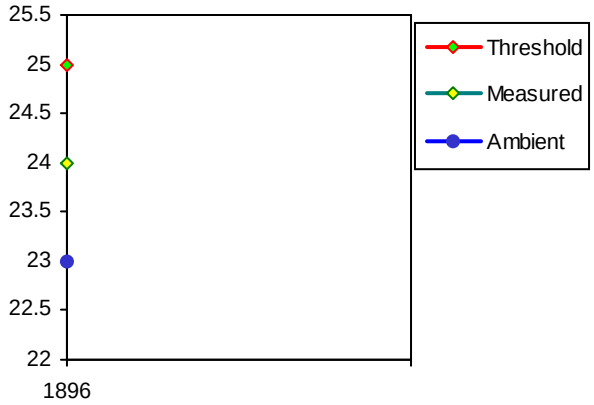
ROW AA

Equipment ID: **-** **Work Order:** **NI** **Operation Priority:** **CTO**



IR_11407.jpg

DC_11408.jpg



Inspection History:

Inspection No	Date Inspected	Test Status	Measured Temp	Threshold Temp	Ambient Temp	Status Note	Customer Notes
1896	14/09/2012	TESTED	24 C	25 C	23 C		

Equipment Baseline Trending Report
By Inspection Order

Key

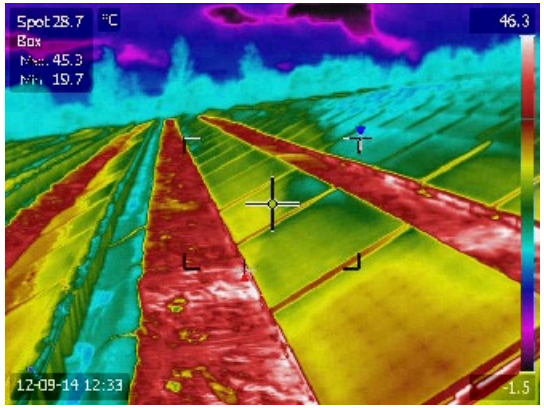
CTO = Critical to operation
ETO = Essential to operation
NON = Non-essential to operation
UNC = Un-Classified
NI = Not Issued

Current Inspection No: 1896 **September 15, 2012**

Report Date: **15/09/2012**

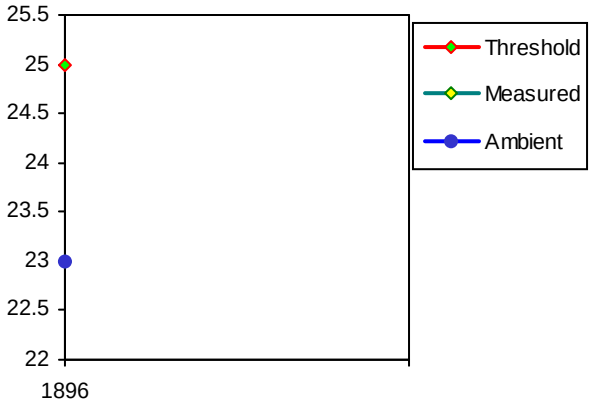
ROW AB

Equipment ID: **-** **Work Order:** **NI** **Operation Priority:** **CTO**



IR_11409.jpg

DC_11410.jpg



Inspection History:

Inspection No	Date Inspected	Test Status	Measured Temp	Threshold Temp	Ambient Temp	Status Note	Customer Notes
1896	14/09/2012	TESTED	23 C	25 C	23 C		

Equipment Baseline Trending Report
By Inspection Order

Key

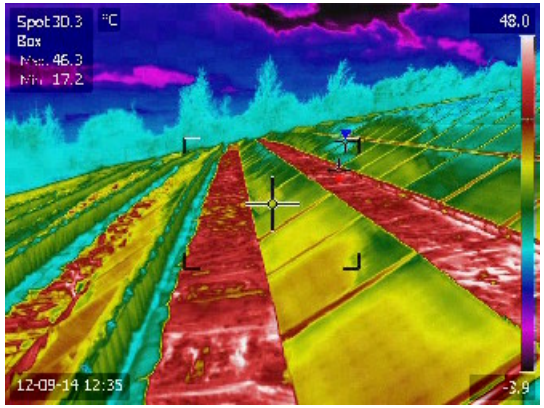
CTO = Critical to operation
ETO = Essential to operation
NON = Non-essential to operation
UNC = Un-Classified
NI = Not Issued

Current Inspection No: 1896 **September 15, 2012**

Report Date: **15/09/2012**

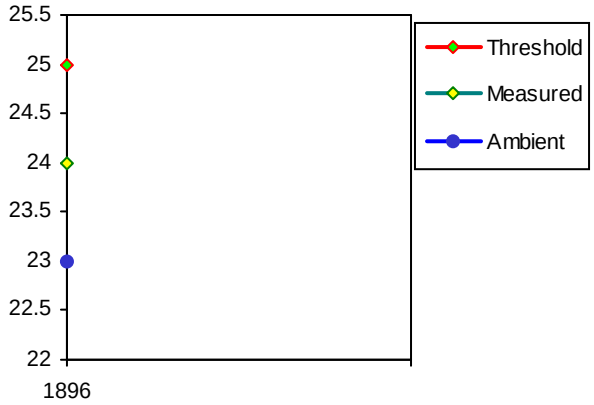
ROW AC

Equipment ID: **-** **Work Order:** **NI** **Operation Priority:** **CTO**



IR_11411.jpg

DC_11412.jpg



Inspection History:

Inspection No	Date Inspected	Test Status	Measured Temp	Threshold Temp	Ambient Temp	Status Note	Customer Notes
1896	14/09/2012	TESTED	24 C	25 C	23 C		

Equipment Baseline Trending Report
By Inspection Order

Key

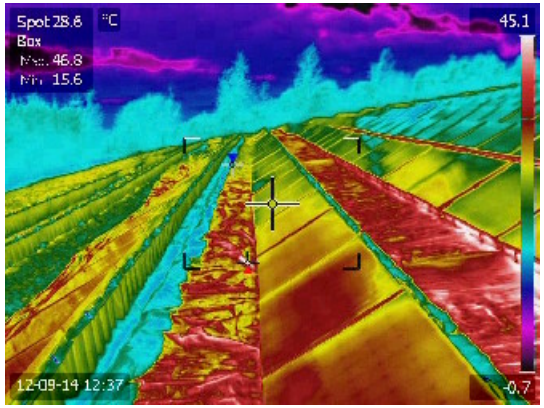
CTO = Critical to operation
ETO = Essential to operation
NON = Non-essential to operation
UNC = Un-Classified
NI = Not Issued

Current Inspection No: 1896 **September 15, 2012**

Report Date: **15/09/2012**

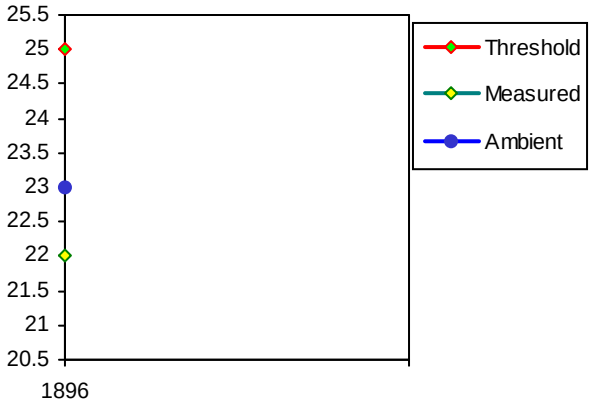
ROW AD

Equipment ID: **-** **Work Order:** **NI** **Operation Priority:** **CTO**



IR_11413.jpg

DC_11414.jpg



Inspection History:

Inspection No	Date Inspected	Test Status	Measured Temp	Threshold Temp	Ambient Temp	Status Note	Customer Notes
1896	14/09/2012	TESTED	22 C	25 C	23 C		

Equipment Baseline Trending Report
By Inspection Order

Key

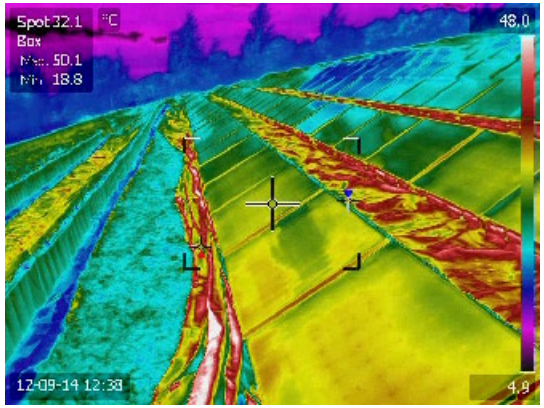
CTO = Critical to operation
ETO = Essential to operation
NON = Non-essential to operation
UNC = Un-Classified
NI = Not Issued

Current Inspection No: 1896 **September 15, 2012**

Report Date: **15/09/2012**

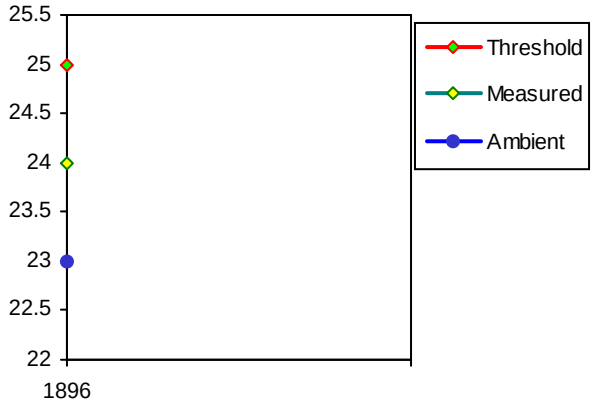
ROW AE

Equipment ID: **-** **Work Order:** **NI** **Operation Priority:** **CTO**



IR_11415.jpg

DC_11416.jpg



Inspection History:

Inspection No	Date Inspected	Test Status	Measured Temp	Threshold Temp	Ambient Temp	Status Note	Customer Notes
1896	14/09/2012	TESTED	24 C	25 C	23 C		

Equipment Baseline Trending Report
By Inspection Order

Key

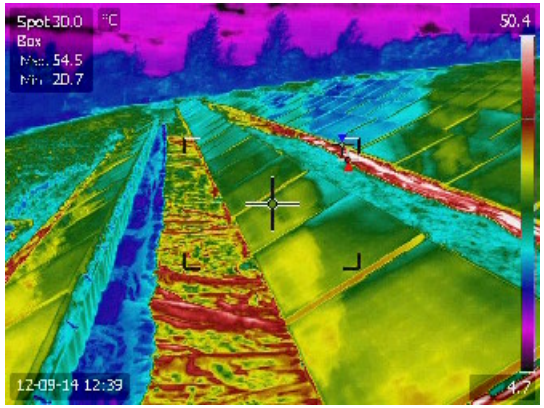
CTO = Critical to operation
ETO = Essential to operation
NON = Non-essential to operation
UNC = Un-Classified
NI = Not Issued

Current Inspection No: 1896 **September 15, 2012**

Report Date: **15/09/2012**

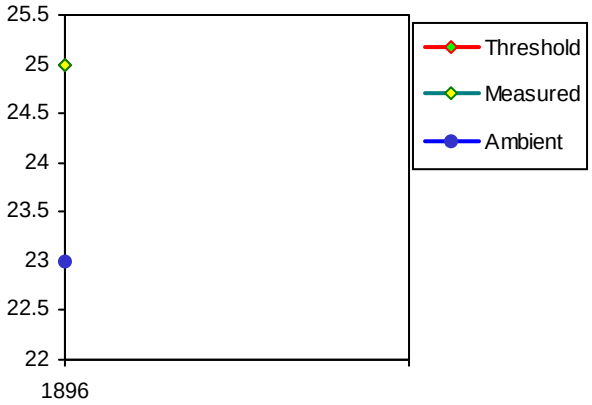
ROW AF

Equipment ID: **-** **Work Order:** **NI** **Operation Priority:** **CTO**



IR_11417.jpg

DC_11418.jpg



Inspection History:

Inspection No	Date Inspected	Test Status	Measured Temp	Threshold Temp	Ambient Temp	Status Note	Customer Notes
1896	14/09/2012	TESTED	25 C	25 C	23 C		

Equipment Baseline Trending Report
By Inspection Order

Key

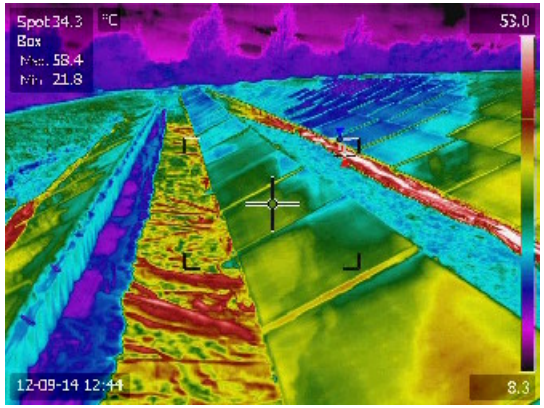
CTO = Critical to operation
ETO = Essential to operation
NON = Non-essential to operation
UNC = Un-Classified
NI = Not Issued

Current Inspection No: 1896 **September 15, 2012**

Report Date: **15/09/2012**

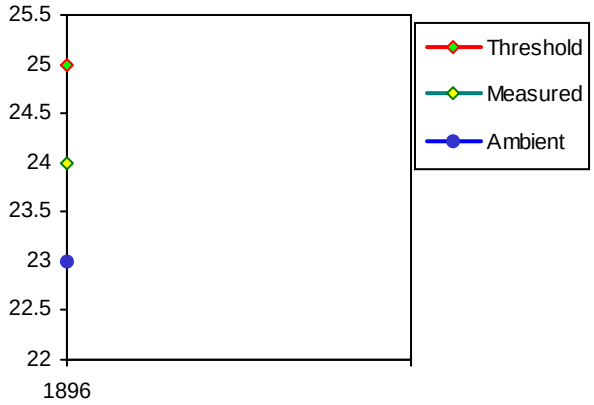
ROW AG

Equipment ID: **-** **Work Order:** **NI** **Operation Priority:** **CTO**



IR_11419.jpg

DC_11420.jpg



Inspection History:

Inspection No	Date Inspected	Test Status	Measured Temp	Threshold Temp	Ambient Temp	Status Note	Customer Notes
1896	14/09/2012	TESTED	24 C	25 C	23 C		

Equipment Baseline Trending Report
By Inspection Order

Key

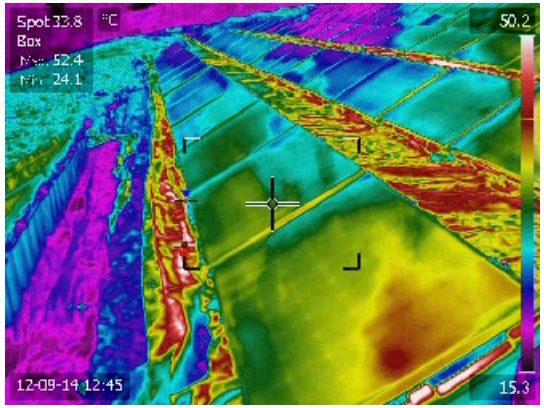
CTO = Critical to operation
ETO = Essential to operation
NON = Non-essential to operation
UNC = Un-Classified
NI = Not Issued

Current Inspection No: 1896 **September 15, 2012**

Report Date: **15/09/2012**

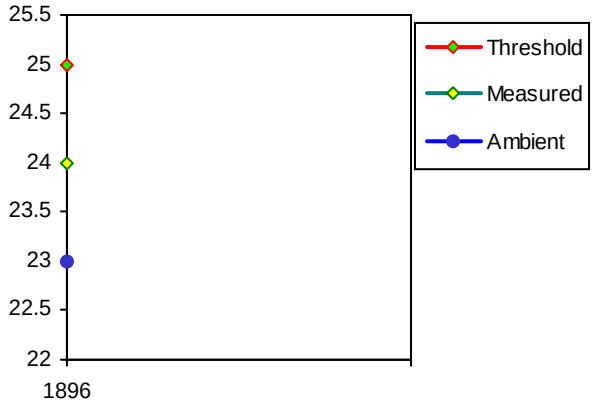
ROW AH

Equipment ID: **-** **Work Order:** **NI** **Operation Priority:** **CTO**



IR_11421.jpg

DC_11422.jpg



Inspection History:

Inspection No	Date Inspected	Test Status	Measured Temp	Threshold Temp	Ambient Temp	Status Note	Customer Notes
1896	14/09/2012	TESTED	24 C	25 C	23 C		

Equipment Baseline Trending Report
By Inspection Order

Key

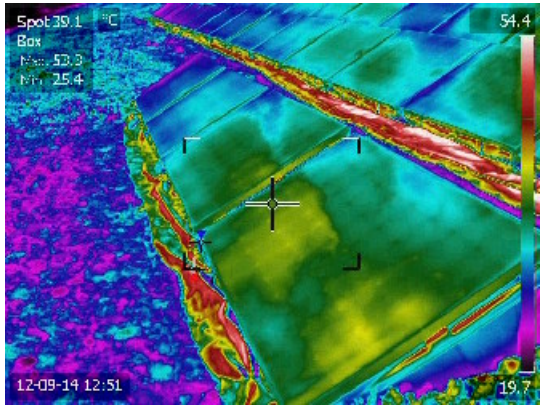
CTO = Critical to operation
ETO = Essential to operation
NON = Non-essential to operation
UNC = Un-Classified
NI = Not Issued

Current Inspection No: 1896 **September 15, 2012**

Report Date: **15/09/2012**

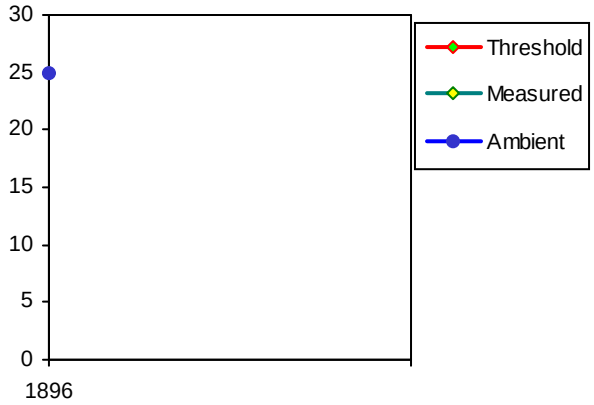
ROW AI

Equipment ID: **-** **Work Order:** **NI** **Operation Priority:** **CTO**



IR_11423.jpg

DC_11424.jpg



Inspection History:

Inspection No	Date Inspected	Test Status	Measured Temp	Threshold Temp	Ambient Temp	Status Note	Customer Notes
1896	14/09/2012	TESTED	25 C	25 C	25 C		

Equipment Baseline Trending Report
By Inspection Order

Key

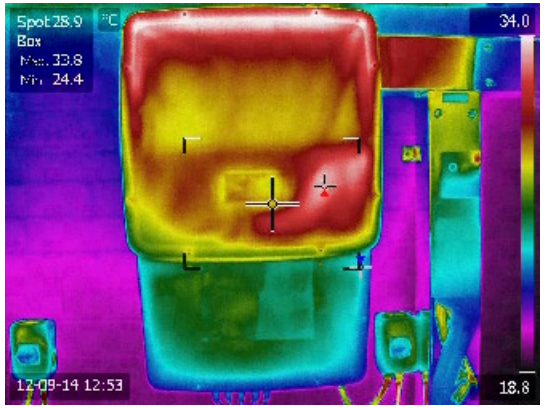
CTO = Critical to operation
ETO = Essential to operation
NON = Non-essential to operation
UNC = Un-Classified
NI = Not Issued

Current Inspection No: 1896 **September 15, 2012**

Report Date: **15/09/2012**

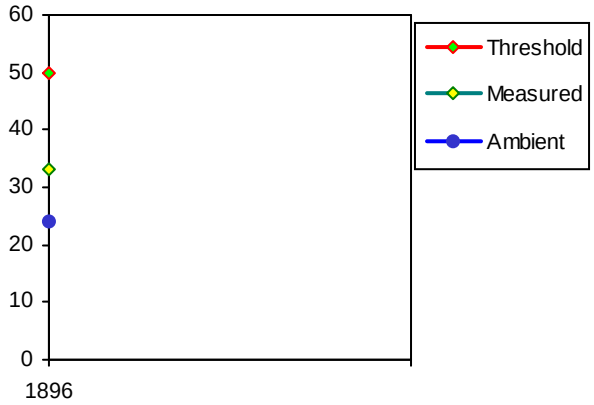
INVERTER ROOM \ INVERTER 1

Equipment ID: **INVERTER 1** **Work Order:** **NI** **Operation Priority:** **CTO**



IR_11425.jpg

DC_11426.jpg



Inspection History:

Inspection No	Date Inspected	Test Status	Measured Temp	Threshold Temp	Ambient Temp	Status Note	Customer Notes
1896	14/09/2012	TESTED	33 C	50 C	24 C		

Equipment Baseline Trending Report
By Inspection Order

Key

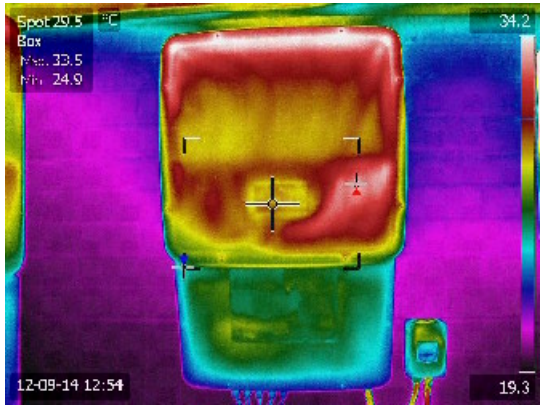
CTO = Critical to operation
ETO = Essential to operation
NON = Non-essential to operation
UNC = Un-Classified
NI = Not Issued

Current Inspection No: 1896 **September 15, 2012**

Report Date: **15/09/2012**

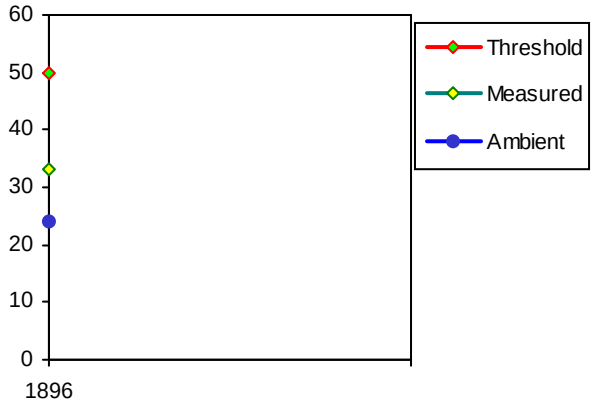
INVERTER ROOM \ INVERTER 2

Equipment ID: **INVERTER 2** **Work Order:** **NI** **Operation Priority:** **CTO**



IR_11427.jpg

DC_11428.jpg



Inspection History:

Inspection No	Date Inspected	Test Status	Measured Temp	Threshold Temp	Ambient Temp	Status Note	Customer Notes
1896	14/09/2012	TESTED	33 C	50 C	24 C		

Equipment Baseline Trending Report
By Inspection Order

Key

CTO = Critical to operation
ETO = Essential to operation
NON = Non-essential to operation
UNC = Un-Classified
NI = Not Issued

Current Inspection No: 1896 **September 15, 2012**

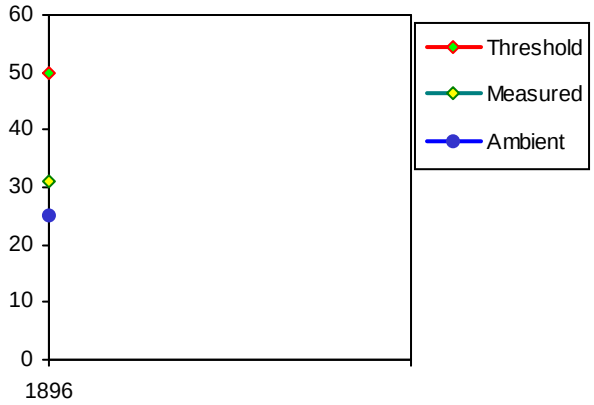
Report Date: **15/09/2012**

INVERTER ROOM \ INVERTER 3

Equipment ID: **INVERTER 3** **Work Order:** **NI** **Operation Priority:** **CTO**

IR_11429.jpg

DC_11430.jpg



Inspection History:

Inspection No	Date Inspected	Test Status	Measured Temp	Threshold Temp	Ambient Temp	Status Note	Customer Notes
1896	14/09/2012	TESTED	31 C	50 C	25 C		

Equipment Baseline Trending Report
By Inspection Order

Key

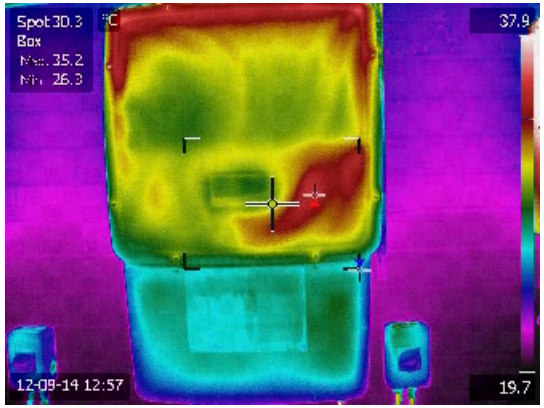
CTO = Critical to operation
ETO = Essential to operation
NON = Non-essential to operation
UNC = Un-Classified
NI = Not Issued

Current Inspection No: 1896 **September 15, 2012**

Report Date: **15/09/2012**

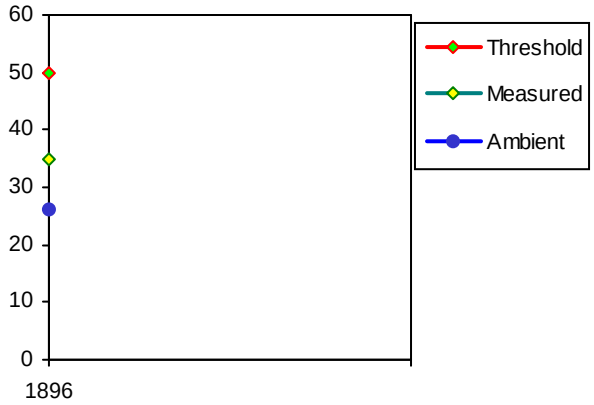
INVERTER ROOM \ INVERTER 4

Equipment ID: **INVERTER 4** **Work Order:** **NI** **Operation Priority:** **CTO**



IR_11431.jpg

DC_11432.jpg



Inspection History:

Inspection No	Date Inspected	Test Status	Measured Temp	Threshold Temp	Ambient Temp	Status Note	Customer Notes
1896	14/09/2012	TESTED	35 C	50 C	26 C		

Equipment Baseline Trending Report
By Inspection Order

Key

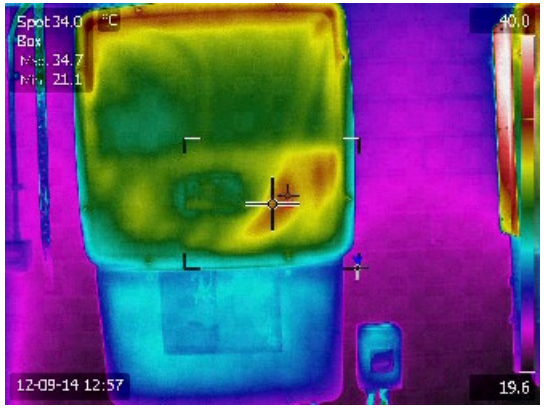
CTO = Critical to operation
ETO = Essential to operation
NON = Non-essential to operation
UNC = Un-Classified
NI = Not Issued

Current Inspection No: 1896 **September 15, 2012**

Report Date: **15/09/2012**

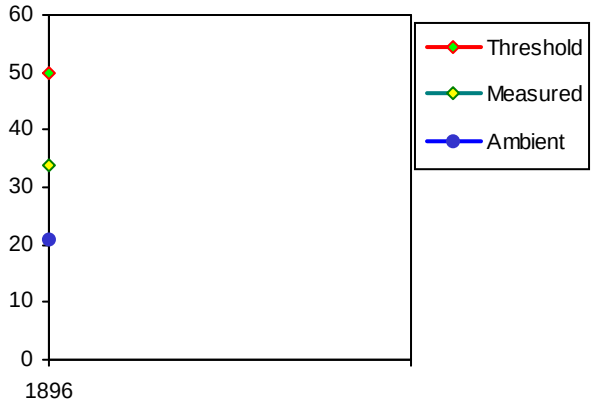
INVERTER ROOM \ INVERTER 5

Equipment ID: **INVERTER 5** **Work Order:** **NI** **Operation Priority:** **CTO**



IR_11433.jpg

DC_11434.jpg



Inspection History:

Inspection No	Date Inspected	Test Status	Measured Temp	Threshold Temp	Ambient Temp	Status Note	Customer Notes
1896	15/09/2012	TESTED	34 C	50 C	21 C		

Equipment Baseline Trending Report
By Inspection Order

Key

CTO = Critical to operation
ETO = Essential to operation
NON = Non-essential to operation
UNC = Un-Classified
NI = Not Issued

Current Inspection No: 1896 **September 15, 2012**

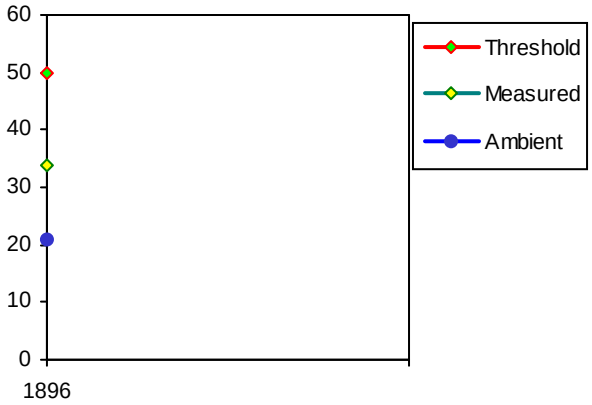
Report Date: **15/09/2012**

INVERTER ROOM \ INVERTER 6

Equipment ID: **INVERTER 6** **Work Order:** **NI** **Operation Priority:** **CTO**

IR_11435.jpg

DC_11436.jpg



Inspection History:

Inspection No	Date Inspected	Test Status	Measured Temp	Threshold Temp	Ambient Temp	Status Note	Customer Notes
1896	15/09/2012	TESTED	34 C	50 C	21 C		

Equipment Baseline Trending Report
By Inspection Order

Key

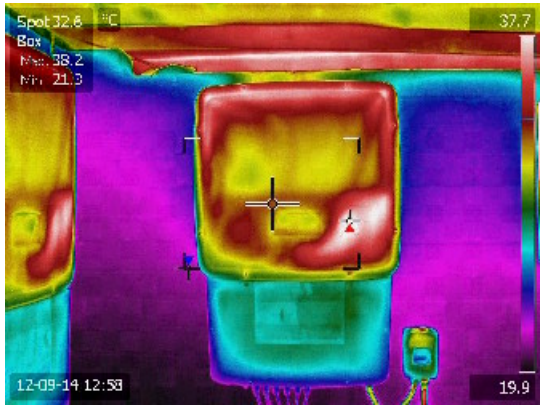
CTO = Critical to operation
ETO = Essential to operation
NON = Non-essential to operation
UNC = Un-Classified
NI = Not Issued

Current Inspection No: 1896 **September 15, 2012**

Report Date: **15/09/2012**

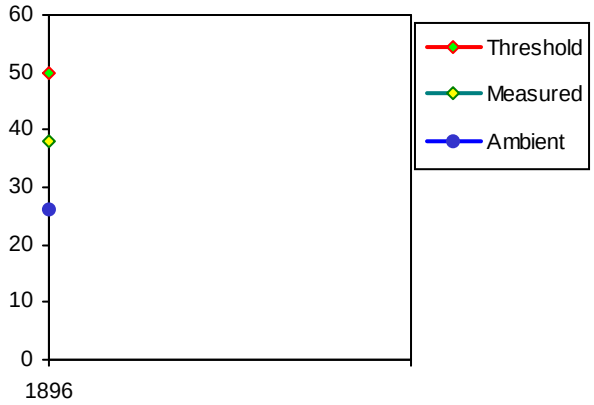
INVERTER ROOM \ INVERTER 7

Equipment ID: **INVERTER 7** **Work Order:** **NI** **Operation Priority:** **CTO**



IR_11437.jpg

DC_11438.jpg



Inspection History:

Inspection No	Date Inspected	Test Status	Measured Temp	Threshold Temp	Ambient Temp	Status Note	Customer Notes
1896	15/09/2012	TESTED	38 C	50 C	26 C		

Equipment Baseline Trending Report
By Inspection Order

Key

CTO = Critical to operation
ETO = Essential to operation
NON = Non-essential to operation
UNC = Un-Classified
NI = Not Issued

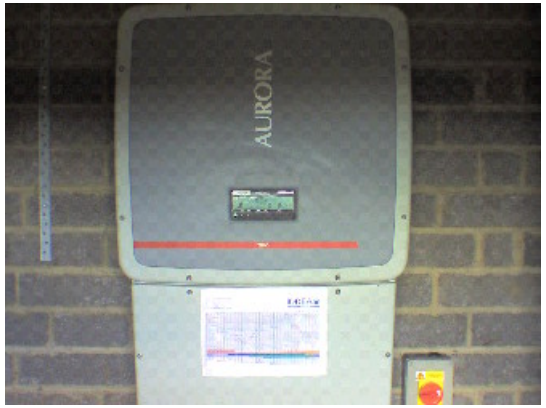
Current Inspection No: 1896 **September 15, 2012**

Report Date: **15/09/2012**

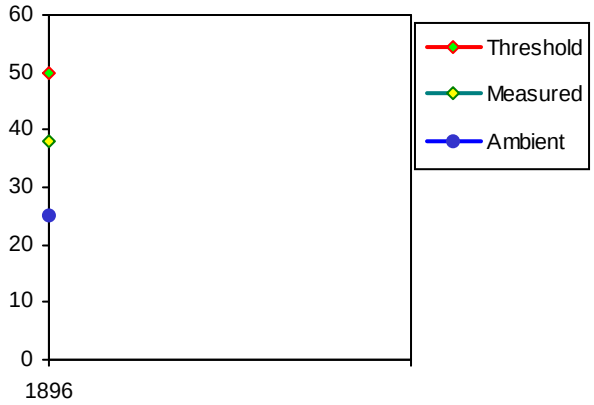
INVERTER ROOM \ INVERTER 8

Equipment ID: **INVERTER 8** **Work Order:** **NI** **Operation Priority:** **CTO**

IR_11439.jpg



DC_11440.jpg



Inspection History:

Inspection No	Date Inspected	Test Status	Measured Temp	Threshold Temp	Ambient Temp	Status Note	Customer Notes
1896	15/09/2012	TESTED	38 C	50 C	25 C		

Equipment Baseline Trending Report
By Inspection Order

Key

CTO = Critical to operation
ETO = Essential to operation
NON = Non-essential to operation
UNC = Un-Classified
NI = Not Issued

Current Inspection No: 1896 **September 15, 2012**

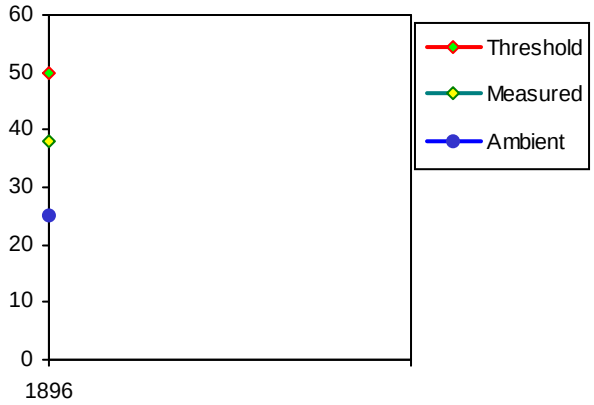
Report Date: **15/09/2012**

INVERTER ROOM \ INVERTER 9

Equipment ID: **INVERTER 9** **Work Order:** **NI** **Operation Priority:** **CTO**

IR_11441.jpg

DC_11442.jpg



Inspection History:

Inspection No	Date Inspected	Test Status	Measured Temp	Threshold Temp	Ambient Temp	Status Note	Customer Notes
1896	15/09/2012	TESTED	38 C	50 C	25 C		

Equipment Baseline Trending Report
By Inspection Order

Key

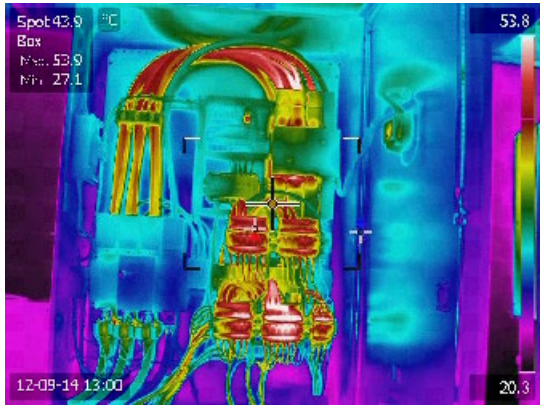
CTO = Critical to operation
ETO = Essential to operation
NON = Non-essential to operation
UNC = Un-Classified
NI = Not Issued

Current Inspection No: 1896 **September 15, 2012**

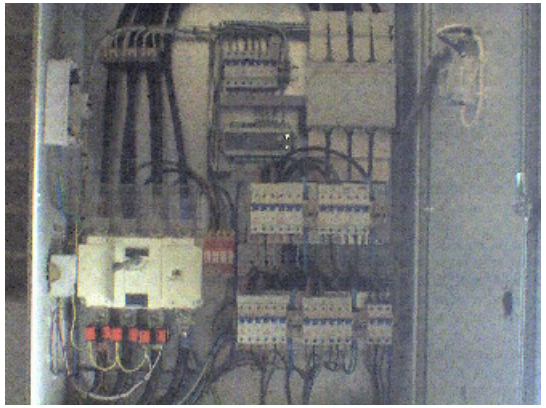
Report Date: **15/09/2012**

INVERTER ROOM \ KWH GENERATED METER

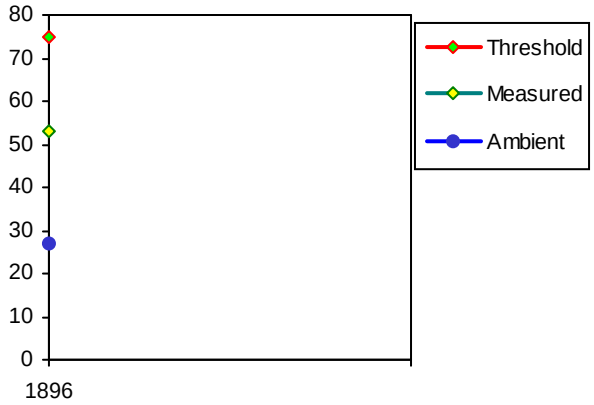
Equipment ID: **KWH GENERATED METER** **Work Order:** **NI** **Operation Priority:** **CTO**



IR_11443.jpg



DC_11444.jpg



Inspection History:

Inspection No	Date Inspected	Test Status	Measured Temp	Threshold Temp	Ambient Temp	Status Note	Customer Notes
1896	15/09/2012	TESTED	53 C	75 C	27 C		

Equipment Baseline Trending Report
By Inspection Order

Key

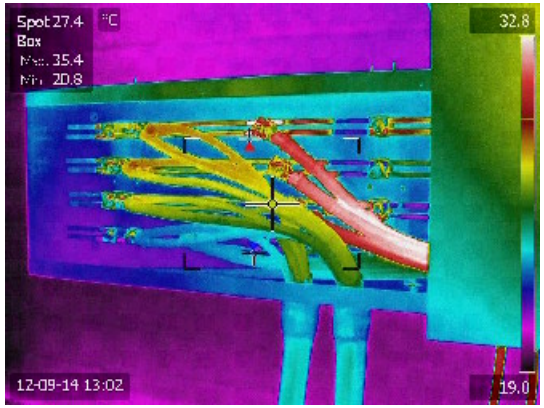
CTO = Critical to operation
ETO = Essential to operation
NON = Non-essential to operation
UNC = Un-Classified
NI = Not Issued

Current Inspection No: 1896 **September 15, 2012**

Report Date: **15/09/2012**

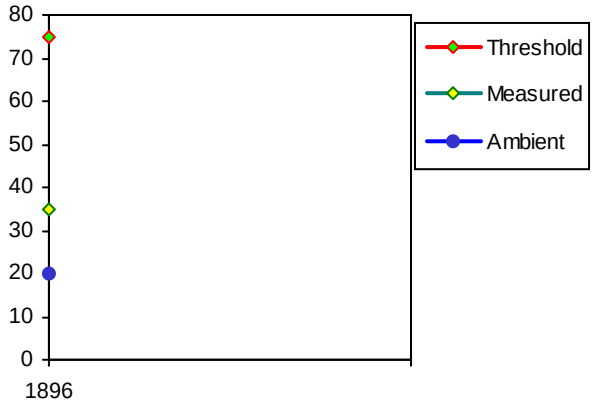
INVERTER ROOM \ BUSBAR

Equipment ID: **BUSBAR** **Work Order:** **NI** **Operation Priority:** **CTO**



IR_11446.jpg

DC_11447.jpg



Inspection History:

Inspection No	Date Inspected	Test Status	Measured Temp	Threshold Temp	Ambient Temp	Status Note	Customer Notes
1896	15/09/2012	TESTED	35 C	75 C	20 C		

Ti Thermal Imaging LTD

Unit 8, Weybridge Business Centre, 66 York Road, Weybridge, Surrey, KT13 9DY

Tel: 0845 458 6315 Fax: 0871 9004978 E-mail: info@thermalimaging.co.uk Web: www.thermalimaging.co.uk

Work Order Documentation pages

Fax or Email back Corrective Work Orders

Also available on your Webmanager Problems page
Please use your login details provided

http://193.228.155.40/inspectrend

Documentation/ Work Order Visual: Please add Corrective Work Order

Work Order #: NOT ISSUED

Corrective Work Order #:

PLEASE ADD CORRECTIVE WORK ORDERS ABOVE

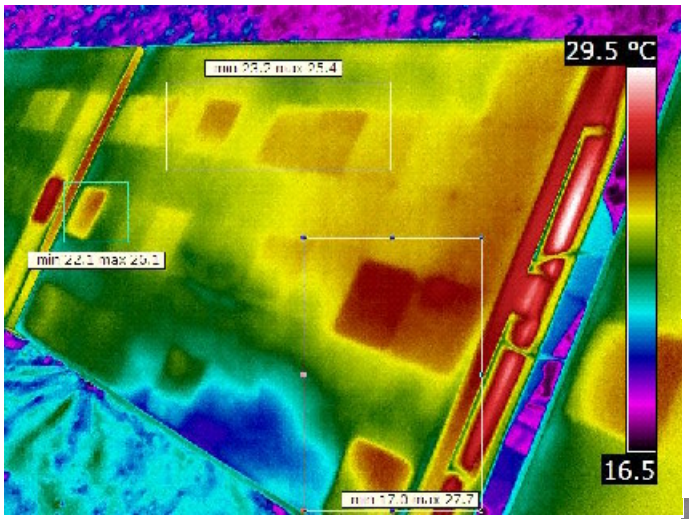
InspectionNo: 1896
Report Date: 15/09/2012

1896-1 **Current Prob No: Visual/1**

Location/Equipment Information

Asset ID: -
Barcode: NI
Location: ROW A
A10

Operation Priority:	Critical to operation
Repair Priority:	3-Important
Hazard Type:	Visual
Hazard Classification:	Solar Panel
Hazard Group:	Elevated Surface Temperature
Hazard Issue:	at AR1, AR2 and AR3
Observations:	Elevated Surface Temperature at AR1, AR2 and AR3
What is the Cause:	Suspected Faulty Solar Cell(s)



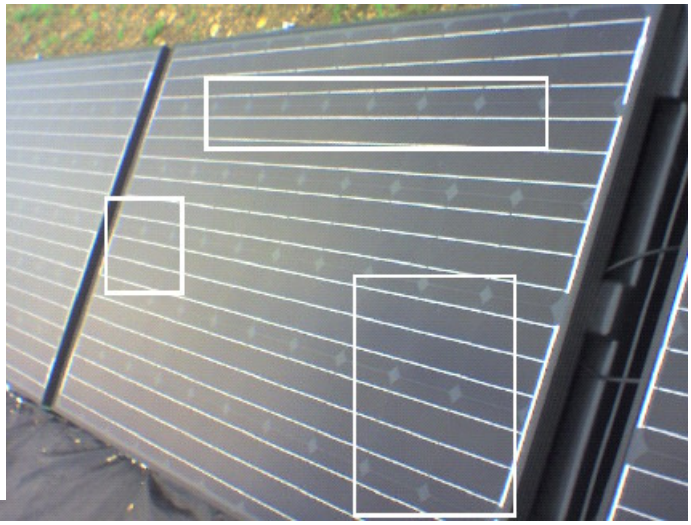


Photo File: IR_11329A.jpg Photo Date: 15/09/2012 Photo File: DC_11330.jpg Photo Date: 15/09/2012

Repair Information

PLEASE FAX BACK AFTER REPAIR TO: 0871 900 4978 OR INFO@THERMALIMAGING.CO.UK

Loss to Production
☐ Yes ☐ No ☑ Unknown

Consequences of Failure:

Repair Date: **Repaired By:**

Root Cause:

Parts Req. Before Failure:

Repair Procedure: Further investigation required

Parts Req. After Failure:

Repair Notes:

Repair Recommendation:
Further investigation required

Documentation/ Work Order Visual: Please add Corrective Work Order

Work Order #: NOT ISSUED

Corrective Work Order #:

PLEASE ADD CORRECTIVE WORK ORDERS ABOVE

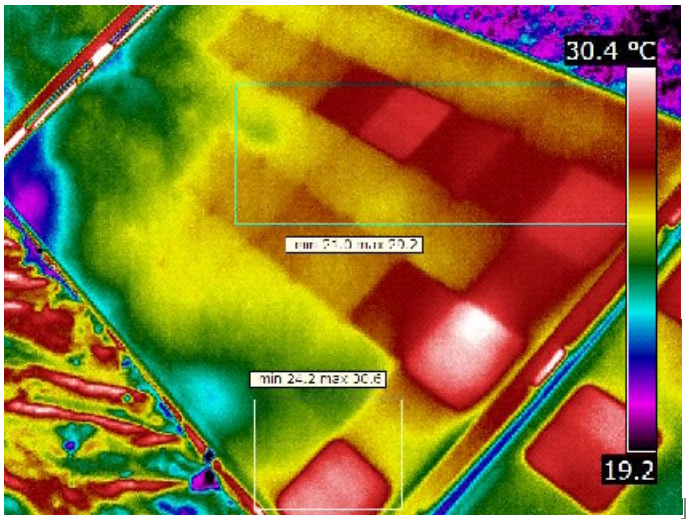
InspectionNo: 1896
Report Date: 15/09/2012

1896-2 **Current Prob No: Visual/2**

Location/Equipment Information

Asset ID: -
Barcode: NI
Location: ROW A
A11

Operation Priority:	Critical to operation
Repair Priority:	3-Important
Hazard Type:	Visual
Hazard Classification:	Solar Panel
Hazard Group:	Elevated Surface Temperature
Hazard Issue:	at AR1 and AR2
Observations:	Elevated Surface Temperature at AR1 and AR2
What is the Cause:	Suspected Faulty Solar Cell(s)



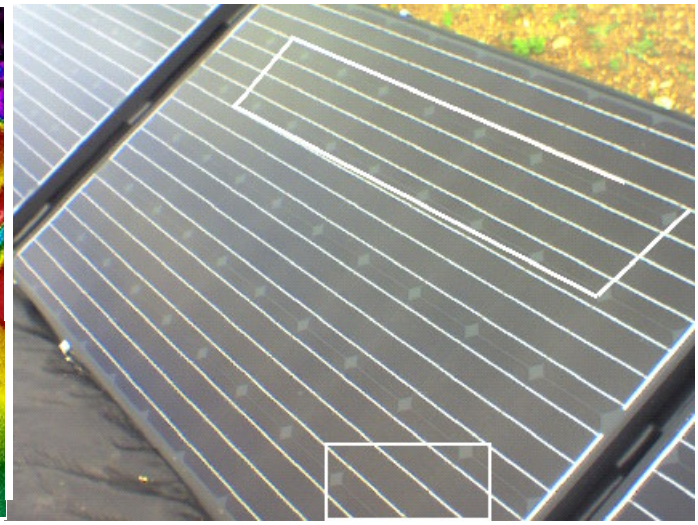


Photo File: IR_11331A.jpg Photo Date: 15/09/2012 Photo File: DC_11332.jpg Photo Date: 15/09/2012

Repair Information

PLEASE FAX BACK AFTER REPAIR TO: 0871 900 4978 OR INFO@THERMALIMAGING.CO.UK

Loss to Production ☐ Yes ☐ No ☑ Unknown

Consequences of Failure:

Repair Date: **Repaired By:**

Root Cause:

Parts Req. Before Failure:

Repair Procedure: Further investigation required

Parts Req. After Failure:

Repair Notes:

Repair Recommendation:
Further investigation required

Documentation/ Work Order Visual: Please add Corrective Work Order

Work Order #: NOT ISSUED

Corrective Work Order #:

PLEASE ADD CORRECTIVE WORK ORDERS ABOVE

InspectionNo: 1896
Report Date: 15/09/2012

1896-3 **Current Prob No: Visual/3**

Location/Equipment Information

Asset ID: -
Barcode: NI
Location: ROW A
A12

Operation Priority:	Critical to operation
Repair Priority:	2-Serious
Hazard Type:	Visual
Hazard Classification:	Solar Panel
Hazard Group:	Elevated Surface Temperature
Hazard Issue:	at AR1, AR2 and AR3
Observations:	Elevated Surface Temperature at AR1, AR2 and AR3
What is the Cause:	Suspected Faulty Solar Cell(s)

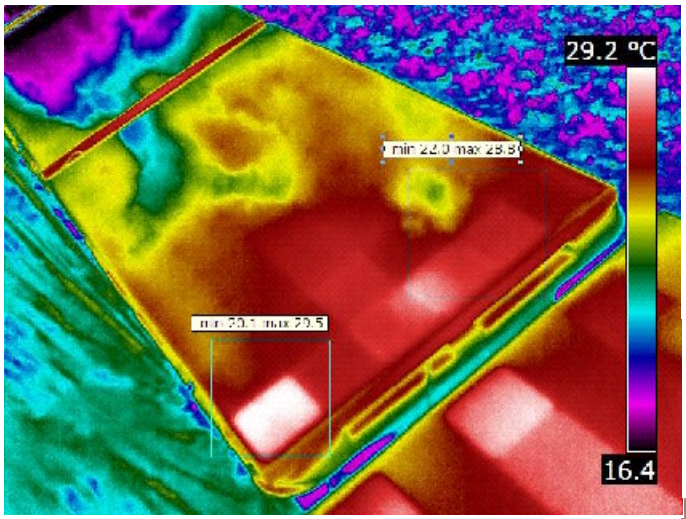


Photo File: IR_11333A.jpg Photo Date: 15/09/2012

Photo File: DC_11334.jpg Photo Date: 14/09/2012

Repair Information

PLEASE FAX BACK AFTER REPAIR TO: 0871 900 4978 OR INFO@THERMALIMAGING.CO.UK

Loss to Production ☐ Yes ☐ No ☑ Unknown

Consequences of Failure:

Repair Date: **Repaired By:**

Root Cause:

Parts Req. Before Failure:

Repair Procedure: Further investigation required

Parts Req. After Failure:

Repair Notes:

Repair Recommendation:
Further investigation required

Documentation/ Work Order Visual: Please add Corrective Work Order

Work Order #: NOT ISSUED

Corrective Work Order #:

PLEASE ADD CORRECTIVE WORK ORDERS ABOVE

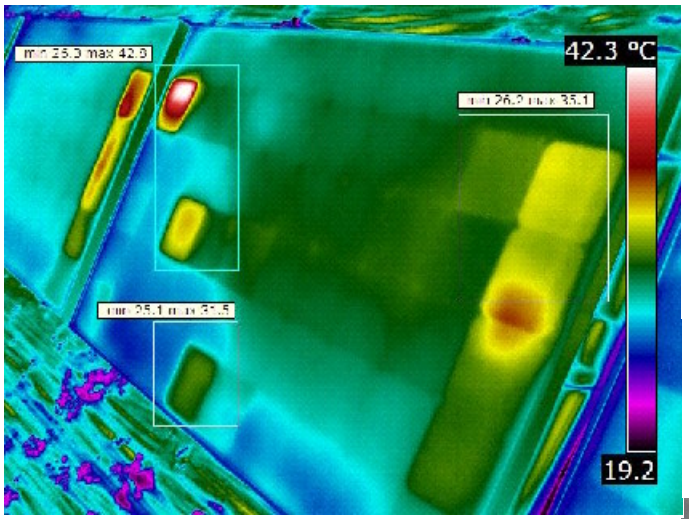
InspectionNo: 1896
Report Date: 15/09/2012

1896-4 **Current Prob No: Visual/4**

Location/Equipment Information

Asset ID: -
Barcode: NI
Location: ROW B
B12

Operation Priority:	Critical to operation
Repair Priority:	2-Serious
Hazard Type:	Visual
Hazard Classification:	Solar Panel
Hazard Group:	Elevated Surface Temperature
Hazard Issue:	at AR1, AR2 and AR3
Observations:	Elevated Surface Temperature at AR1, AR2 and AR3
What is the Cause:	Suspected Faulty Solar Cell(s)



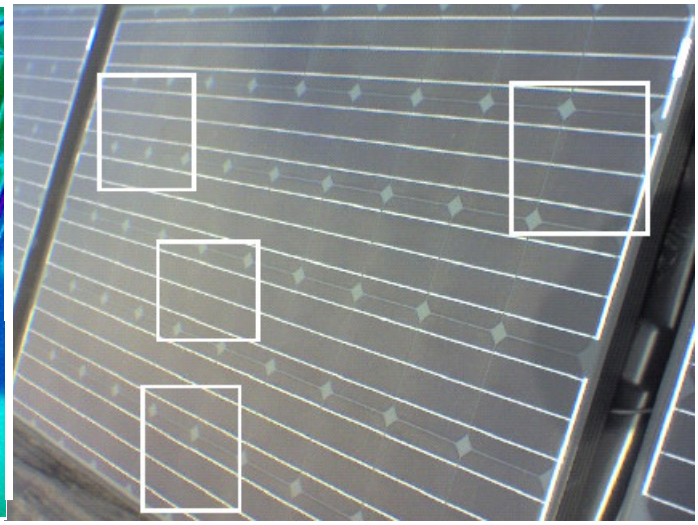


Photo File: IR_11335A.jpg Photo Date: 15/09/2012 Photo File: DC_11336.jpg Photo Date: 15/09/2012

Repair Information

PLEASE FAX BACK AFTER REPAIR TO: 0871 900 4978 OR INFO@THERMALIMAGING.CO.UK

Loss to Production
☐ Yes ☐ No ☑ Unknown

Consequences of Failure:

Repair Date: **Repaired By:**

Root Cause:

Parts Req. Before Failure:

Repair Procedure: Further investigation required

Parts Req. After Failure:

Repair Notes:

Repair Recommendation:
Further investigation required

Documentation/ Work Order Visual: Please add Corrective Work Order

Work Order #: NOT ISSUED

Corrective Work Order #:

PLEASE ADD CORRECTIVE WORK ORDERS ABOVE

InspectionNo: 1896
Report Date: 15/09/2012

1896-5 **Current Prob No: Visual/5**

Location/Equipment Information

Asset ID: -
Barcode: NI
Location: ROW B
B13

Operation Priority:	Critical to operation
Repair Priority:	3-Important
Hazard Type:	Visual
Hazard Classification:	Solar Panel
Hazard Group:	Elevated Surface Temperature
Hazard Issue:	at AR1
Observations:	Elevated Surface Temperature at AR1
What is the Cause:	Suspected Faulty Solar Cell(s)

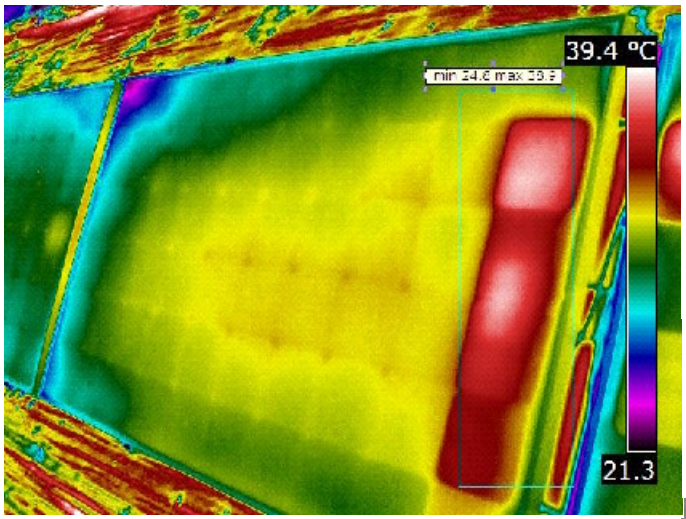


Photo File: IR_11337A.jpg Photo Date: 15/09/2012

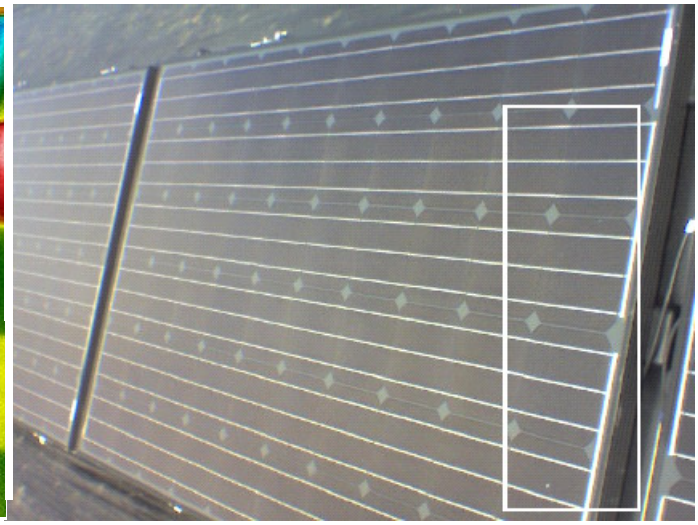


Photo File: DC_11338.jpg Photo Date: 15/09/2012

Repair Information

PLEASE FAX BACK AFTER REPAIR TO: 0871 900 4978 OR INFO@THERMALIMAGING.CO.UK

Loss to Production ☐ Yes ☐ No ☑ Unknown

Consequences of Failure:

Repair Date: **Repaired By:**

Root Cause:

Parts Req. Before Failure:

Repair Procedure: Further investigation required

Parts Req. After Failure:

Repair Notes:

Repair Recommendation:
Further investigation required

Documentation/ Work Order Visual: Please add Corrective Work Order

Work Order #: NOT ISSUED

Corrective Work Order #:

PLEASE ADD CORRECTIVE WORK ORDERS ABOVE

InspectionNo: 1896
Report Date: 15/09/2012

1896-6 **Current Prob No: Visual/6**

Location/Equipment Information

Asset ID: -
Barcode: NI
Location: INVERTER ROOM
BUSBAR

Operation Priority:	Critical to operation
Repair Priority:	4-Minor
Hazard Type:	Visual
Hazard Classification:	Electrical
Hazard Group:	Missing panel fixings
Hazard Issue:	causing the panel to be secured insufficiently
Observations:	Missing panel fixings causing the panel to be secured insufficiently
What is the Cause:	Panel fixings have not been replaced after previous removal

PHOTO IMAGE IS NOT NECESSARY

Photo File: Photo Date: Photo File: DC_11447.jpg Photo Date: 15/09/2012

PLEASE FAX BACK AFTER REPAIR TO: 0871 900 4978 OR INFO@THERMALIMAGING.CO.UK

Repair Information

Loss to Production ☐ Yes ☐ No ☑ Unknown

Consequences of Failure:

Repair Date: **Repaired By:**

Root Cause:

Parts Req. Before Failure:

Repair Procedure: Add appropriate number of panel screws

Parts Req. After Failure:

Repair Notes:

Repair Recommendation:
Add appropriate number of panel screws

Documentation/ Work Order Visual: Please add Corrective Work Order

Work Order #: NOT ISSUED

Corrective Work Order #:

PLEASE ADD CORRECTIVE WORK ORDERS ABOVE

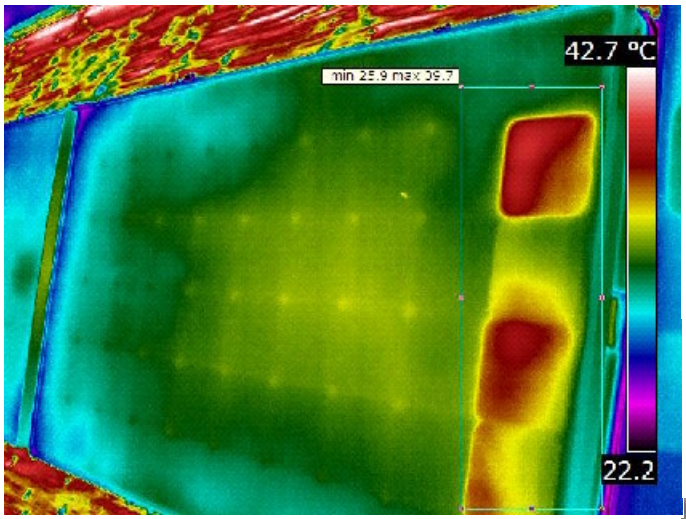
InspectionNo: 1896
Report Date: 15/09/2012

1896-7 **Current Prob No: Visual/7**

Location/Equipment Information

Asset ID: -
Barcode: NI
Location: ROW B
B14

Operation Priority:	Critical to operation
Repair Priority:	3-Important
Hazard Type:	Visual
Hazard Classification:	Solar Panel
Hazard Group:	Elevated Surface Temperature
Hazard Issue:	at AR1
Observations:	Elevated Surface Temperature at AR1
What is the Cause:	Suspected Faulty Solar Cell(s)



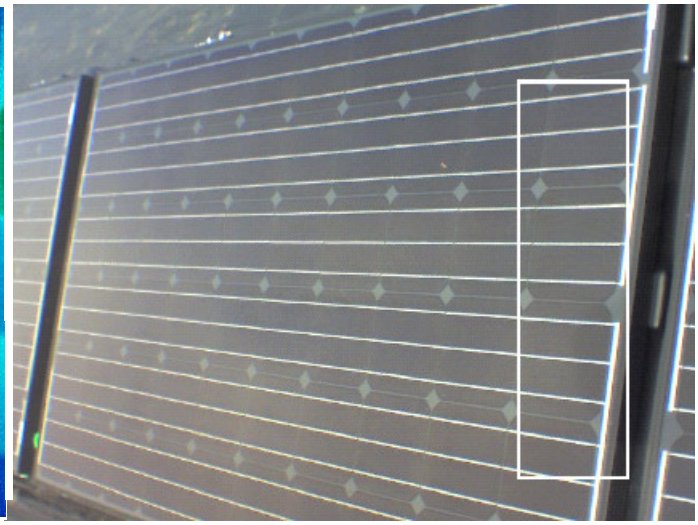


Photo File: IR_11339A.jpg Photo Date: 15/09/2012 Photo File: DC_11340.jpg Photo Date: 15/09/2012

Repair Information

PLEASE FAX BACK AFTER REPAIR TO: 0871 900 4978 OR INFO@THERMALIMAGING.CO.UK

Loss to Production
☐ Yes ☐ No ☑ Unknown

Consequences of Failure:

Repair Date: **Repaired By:**

Root Cause:

Parts Req. Before Failure:

Repair Procedure: Further investigation required

Parts Req. After Failure:

Repair Notes:

Repair Recommendation:
Further investigation required

Documentation/ Work Order Visual: Please add Corrective Work Order

Work Order #: NOT ISSUED

Corrective Work Order #:

PLEASE ADD CORRECTIVE WORK ORDERS ABOVE

InspectionNo: 1896
Report Date: 15/09/2012

1896-8 **Current Prob No: Visual/8**

Location/Equipment Information

Asset ID: -
Barcode: NI
Location: ROW C
C32

Operation Priority:	Critical to operation
Repair Priority:	3-Important
Hazard Type:	Visual
Hazard Classification:	Solar Panel
Hazard Group:	Elevated Surface Temperature
Hazard Issue:	at AR1
Observations:	Elevated Surface Temperature at AR1
What is the Cause:	Suspected Faulty Solar Cell(s)

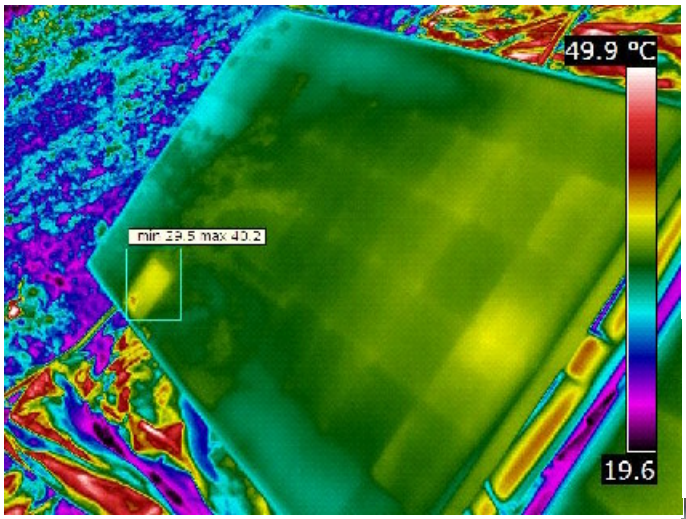


Photo File: IR_11341A.jpg Photo Date: 15/09/2012

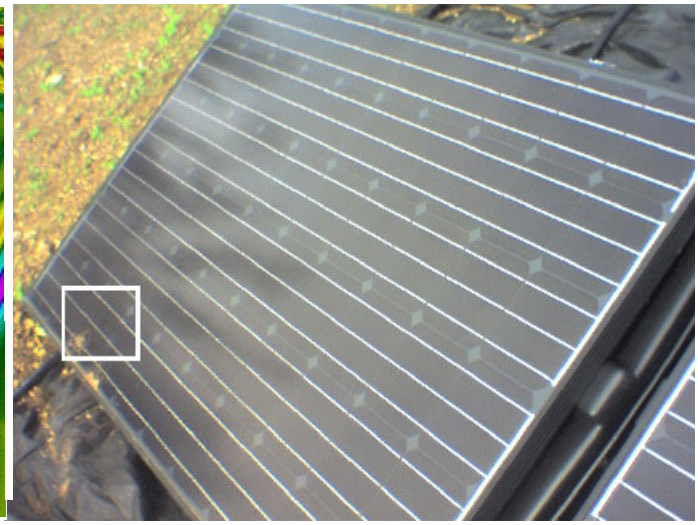


Photo File: DC_11342.jpg Photo Date: 15/09/2012

Repair Information

PLEASE FAX BACK AFTER REPAIR TO: 0871 900 4978 OR INFO@THERMALIMAGING.CO.UK

Loss to Production ☐ Yes ☐ No ☑ Unknown

Consequences of Failure:

Repair Date: **Repaired By:**

Root Cause:

Parts Req. Before Failure:

Repair Procedure: Further investigation required

Parts Req. After Failure:

Repair Notes:

Repair Recommendation:
Further investigation required

Documentation/ Work Order Visual: Please add Corrective Work Order

Work Order #: NOT ISSUED

Corrective Work Order #:

PLEASE ADD CORRECTIVE WORK ORDERS ABOVE

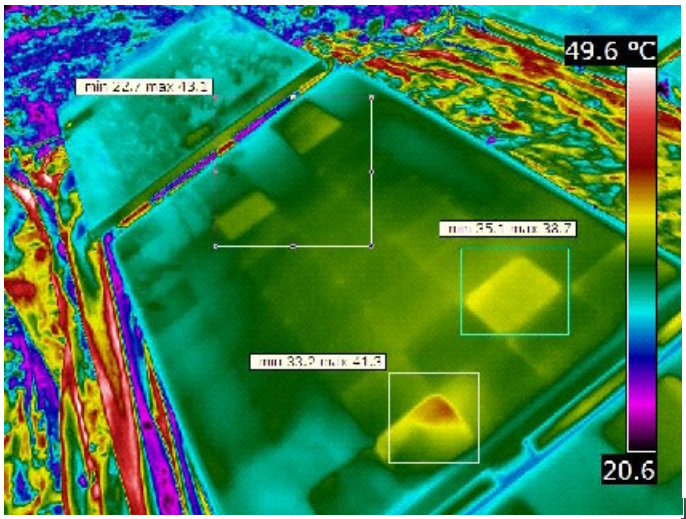
InspectionNo: 1896
Report Date: 15/09/2012

1896-9 **Current Prob No: Visual/9**

Location/Equipment Information

Asset ID: -
Barcode: NI
Location: ROW C
C31

Operation Priority:	Critical to operation
Repair Priority:	3-Important
Hazard Type:	Visual
Hazard Classification:	Solar Panel
Hazard Group:	Elevated Surface Temperature
Hazard Issue:	at AR1, AR2 and AR3
Observations:	Elevated Surface Temperature at AR1, AR2 and AR3
What is the Cause:	



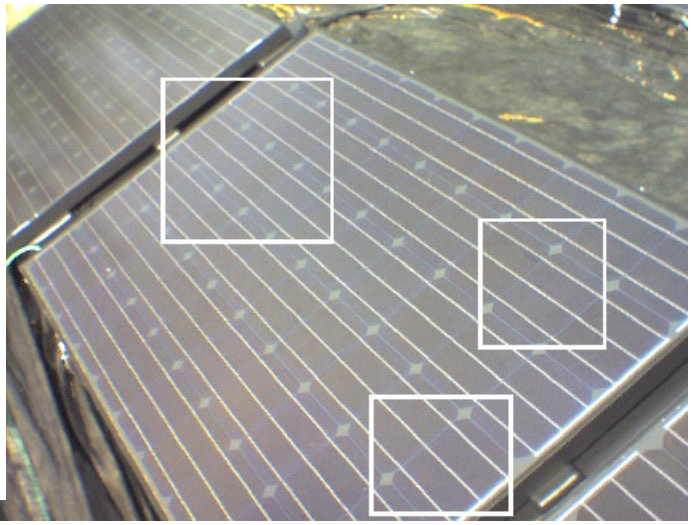


Photo File: IR_11343A.jpg Photo Date: 15/09/2012 Photo File: DC_11344.jpg Photo Date: 15/09/2012

Repair Information

PLEASE FAX BACK AFTER REPAIR TO: 0871 900 4978 OR INFO@THERMALIMAGING.CO.UK

Loss to Production ☐ Yes ☐ No ☑ Unknown

Consequences of Failure:

Repair Date: **Repaired By:**

Root Cause:

Parts Req. Before Failure:

Repair Procedure:

Parts Req. After Failure:

Repair Notes:

Repair Recommendation:

Documentation/ Work Order Visual: Please add Corrective Work Order

Work Order #: NOT ISSUED

Corrective Work Order #:

PLEASE ADD CORRECTIVE WORK ORDERS ABOVE

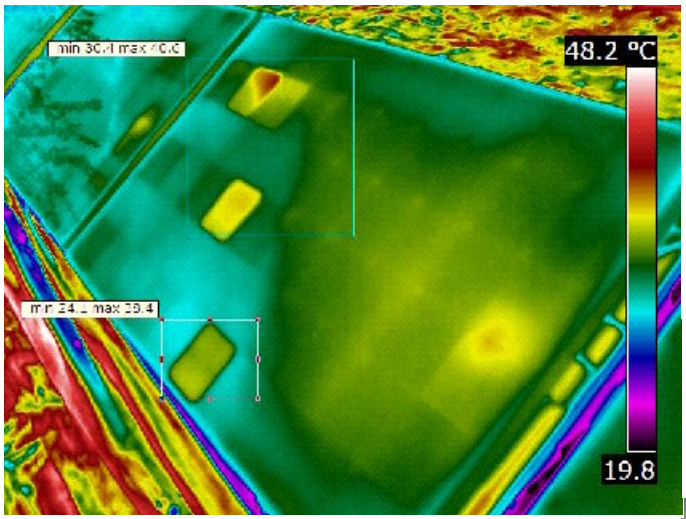
InspectionNo: 1896
Report Date: 15/09/2012

1896-10 **Current Prob No: Visual/10**

Location/Equipment Information

Asset ID: -
Barcode: NI
Location: ROW C
C30

Operation Priority:	Critical to operation
Repair Priority:	3-Important
Hazard Type:	Visual
Hazard Classification:	Solar Panel
Hazard Group:	Elevated Surface Temperature
Hazard Issue:	at AR1 and AR2
Observations:	Elevated Surface Temperature at AR1 and AR2
What is the Cause:	Suspected Faulty Solar Cell(s)



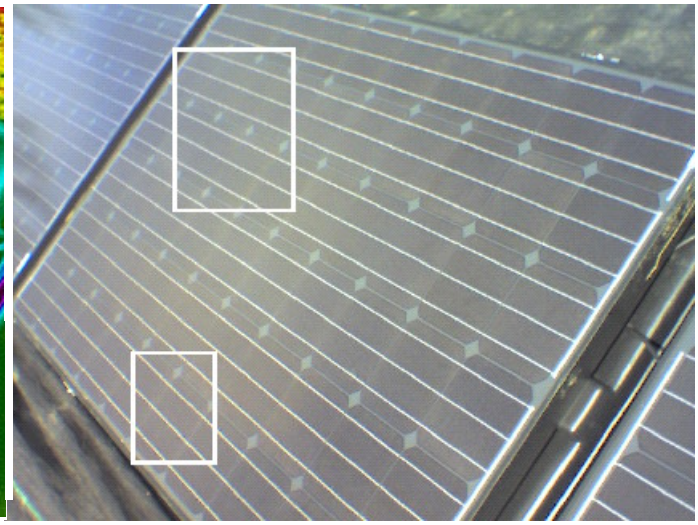


Photo File: IR_11345A.jpg Photo Date: 15/09/2012 Photo File: DC_11346.jpg Photo Date: 15/09/2012

Repair Information

PLEASE FAX BACK AFTER REPAIR TO: 0871 900 4978 OR INFO@THERMALIMAGING.CO.UK

Loss to Production
☐ Yes ☐ No ☑ Unknown

Consequences of Failure:

Repair Date: **Repaired By:**

Root Cause:

Parts Req. Before Failure:

Repair Procedure: Further investigation required

Parts Req. After Failure:

Repair Notes:

Repair Recommendation:
Further investigation required

Documentation/ Work Order Visual: Please add Corrective Work Order

Work Order #: NOT ISSUED

Corrective Work Order #:

PLEASE ADD CORRECTIVE WORK ORDERS ABOVE

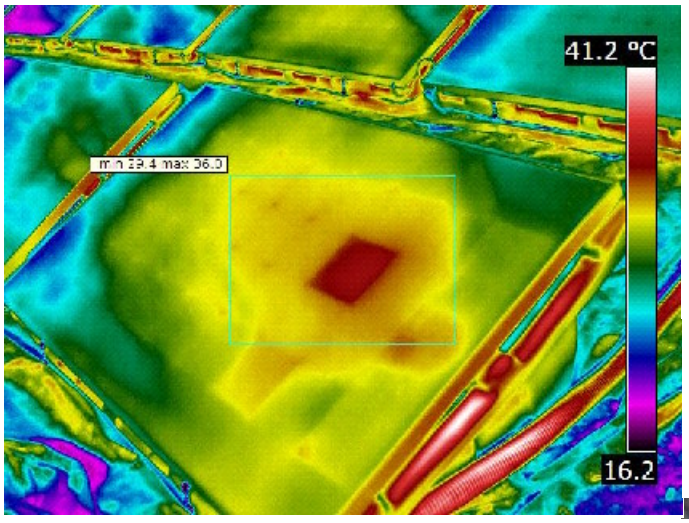
InspectionNo: 1896
Report Date: 15/09/2012

1896-11 **Current Prob No: Visual/11**

Location/Equipment Information

Asset ID: -
Barcode: NI
Location: ROW C
C1

Operation Priority:	Critical to operation
Repair Priority:	3-Important
Hazard Type:	Visual
Hazard Classification:	Solar Panel
Hazard Group:	Elevated Surface Temperature
Hazard Issue:	at AR1
Observations:	Elevated Surface Temperature at AR1
What is the Cause:	Suspected Faulty Solar Cell(s)



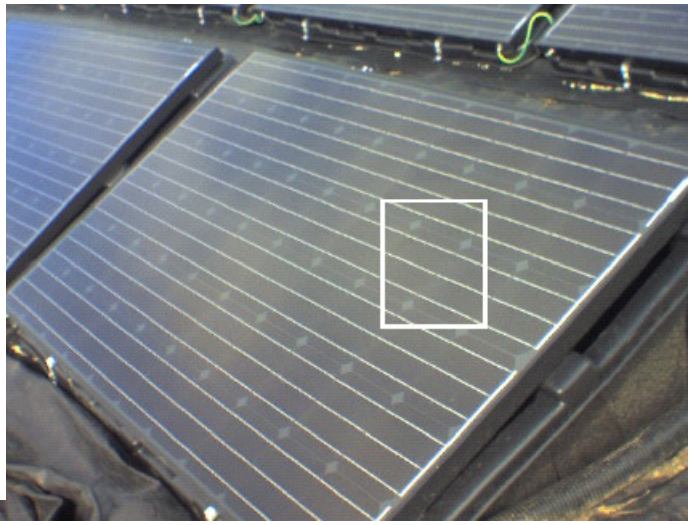


Photo File: IR_11347A.jpg Photo Date: 15/09/2012 Photo File: DC_11348.jpg Photo Date: 15/09/2012

Repair Information

PLEASE FAX BACK AFTER REPAIR TO: 0871 900 4978 OR INFO@THERMALIMAGING.CO.UK

Loss to Production ☐ Yes ☐ No ☑ Unknown

Consequences of Failure:

Repair Date: **Repaired By:**

Root Cause:

Parts Req. Before Failure:

Repair Procedure: Further investigation required

Parts Req. After Failure:

Repair Notes:

Repair Recommendation:
Further investigation required

Documentation/ Work Order Visual: Please add Corrective Work Order

Work Order #: NOT ISSUED

Corrective Work Order #:

PLEASE ADD CORRECTIVE WORK ORDERS ABOVE

InspectionNo: 1896
Report Date: 15/09/2012

1896-12 **Current Prob No: Visual/12**

Location/Equipment Information

Asset ID: -
Barcode: NI
Location: ROW I
I15

Operation Priority:	Critical to operation
Repair Priority:	4-Minor
Hazard Type:	Visual
Hazard Classification:	Solar Panel
Hazard Group:	Elevated Surface Temperature
Hazard Issue:	at AR1
Observations:	Elevated Surface Temperature at AR1
What is the Cause:	Suspected Faulty Solar Cell(s)

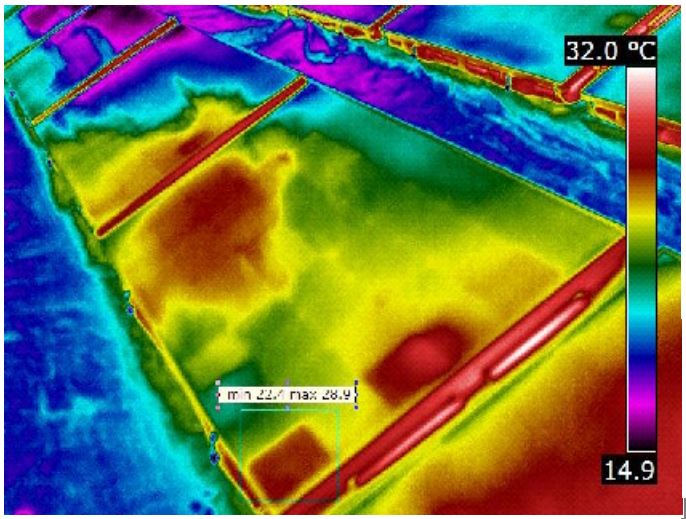


Photo File: IR_11367a.jpg Photo Date: 15/09/2012

Photo File: DC_11368.jpg Photo Date: 15/09/2012

Repair Information

PLEASE FAX BACK AFTER REPAIR TO: 0871 900 4978 OR INFO@THERMALIMAGING.CO.UK

Loss to Production
☐ Yes ☐ No ☑ Unknown

Consequences of Failure:

Repair Date: **Repaired By:**

Root Cause:

Parts Req. Before Failure:

Repair Procedure: Further investigation required

Parts Req. After Failure:

Repair Notes:

Repair Recommendation:
Further investigation required

Documentation/ Work Order Visual: Please add Corrective Work Order

Work Order #:

Corrective Work Order #:

PLEASE ADD CORRECTIVE WORK ORDERS ABOVE

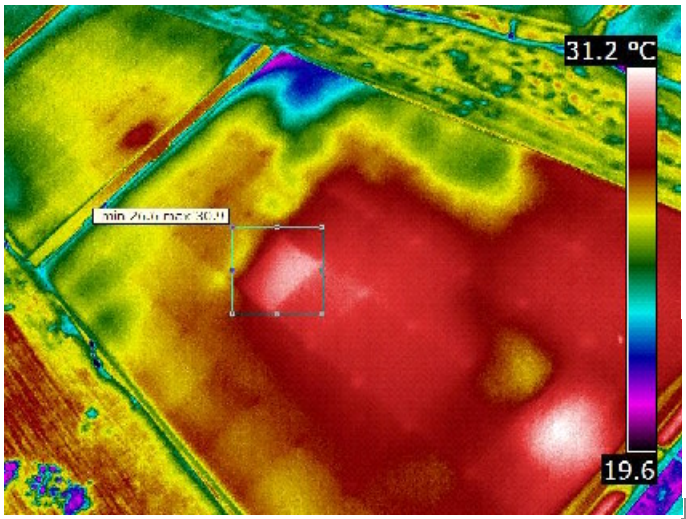
InspectionNo: 1896
Report Date: 15/09/2012

1896-13 **Current Prob No: Visual/13**

Location/Equipment Information

Asset ID: -
Barcode: NI
Location: ROW K
K20

Operation Priority:	Critical to operation
Repair Priority:	3-Important
Hazard Type:	Visual
Hazard Classification:	Solar Panel
Hazard Group:	Elevated Surface Temperature
Hazard Issue:	at AR1
Observations:	Elevated Surface Temperature at AR1
What is the Cause:	



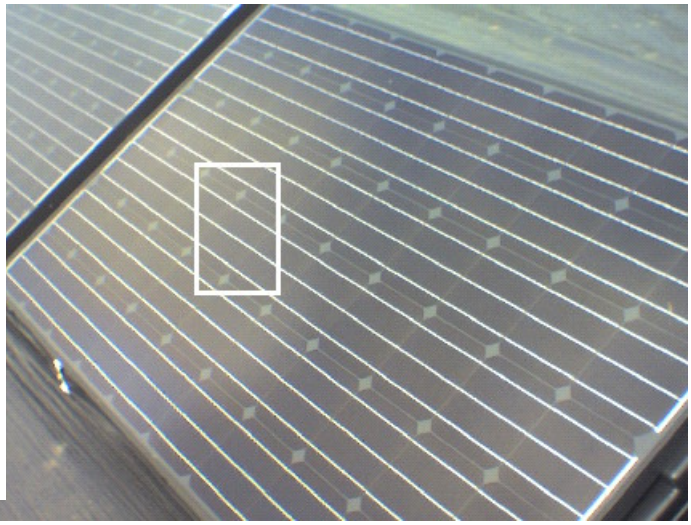


Photo File: IR_11373A.jpg Photo Date: 15/09/2012 Photo File: DC_11374.jpg Photo Date: 15/09/2012

Repair Information

PLEASE FAX BACK AFTER REPAIR TO: 0871 900 4978 OR INFO@THERMALIMAGING.CO.UK

Loss to Production ☐ Yes ☐ No ☑ Unknown

Consequences of Failure:

Repair Date: **Repaired By:**

Root Cause:

Parts Req. Before Failure:

Repair Procedure:

Parts Req. After Failure:

Repair Notes:

Repair Recommendation:

Documentation/ Work Order Visual: Please add Corrective Work Order

Work Order #: NOT ISSUED

Corrective Work Order #:

PLEASE ADD CORRECTIVE WORK ORDERS ABOVE

InspectionNo: 1896
Report Date: 15/09/2012

1896-14 **Current Prob No: Visual/14**

Location/Equipment Information

Asset ID: -
Barcode: NI
Location: ROW N
N1

Operation Priority:	Critical to operation
Repair Priority:	3-Important
Hazard Type:	Visual
Hazard Classification:	Solar Panel
Hazard Group:	Elevated Surface Temperature
Hazard Issue:	at AR1 and AR2
Observations:	Elevated Surface Temperature at AR1 and AR2
What is the Cause:	Suspected Faulty Solar Cell(s)

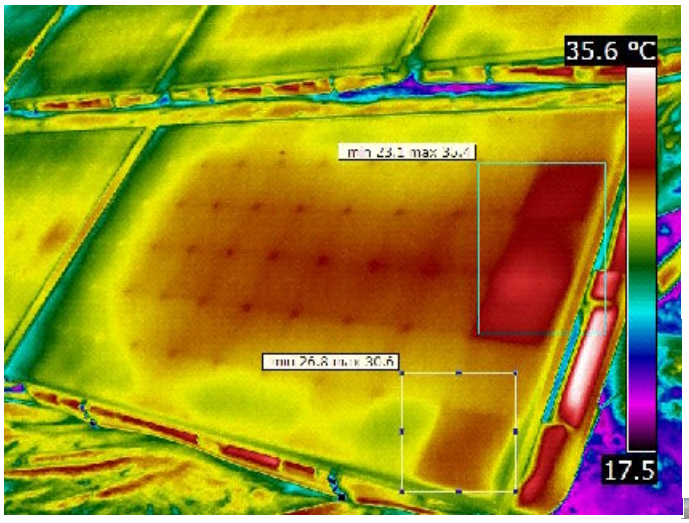


Photo File: IR_11381A.jpg Photo Date: 15/09/2012 Photo File: DC_11382.jpg Photo Date: 15/09/2012

Repair Information

PLEASE FAX BACK AFTER REPAIR TO: 0871 900 4978 OR INFO@THERMALIMAGING.CO.UK

Loss to Production
☐ Yes ☐ No ☑ Unknown

Consequences of Failure:

Repair Date: **Repaired By:**

Root Cause:

Parts Req. Before Failure:

Repair Procedure: Further investigation required

Parts Req. After Failure:

Repair Notes:

Repair Recommendation:
Further investigation required

Ti Thermal Imaging LTD

Unit 8, Weybridge Business Centre, 66 York Road, Weybridge, Surrey, KT13 9DY

Tel: 0845 458 6315 Fax: 0871 9004978 E-mail: info@thermalimaging.co.uk Web: www.thermalimaging.co.uk

Client Work Appraisal

We are continually trying to improve our service and ensure that all our inspections are carried out to the highest standards. Please use the form below to add your comments, anonymously if you prefer and send back to us at the address above or:

Email: info@thermalimaging.co.uk
Fax: +44 870 9004971

TI Job Number: (Optional)	Excellent	Good	Mediocre	Poor	Comments
Office:					
Response time to enquiry					
Content of information sent on enquiry					
Telephone and email manner					
Price					
Value					
Engineer:					
Time keeping					
Appearance					
Code of conduct					
Subject knowledge					
Method of work					
Engineer flexibility					
Inspection Specification:					
Equipment and software					
Report content					
Report delivery time					
Report retrieval					
Other Comments:					