

Technical Assurance Agent



***Technical Assurance of Metering Systems
TAA Annual Statistics Report
BSC Year 2009/10***

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1 Introduction

1.1 Synopsis

The Technical Assurance Agent Annual Statistics Report shows the summary of the following statistics, from the Technical Assurance of Metering Systems inspection visits performed during the BSC Year from the 1st April 2009 to 31st March 2010.

- Performance Statistics (e.g non-compliances identified)
- Visit planning
- Cancelled visits
- No access



1.2 Technical Assurance of Metering Systems

The purpose of the Technical Assurance of Metering (TAM) technique is to provide assurance that Half Hourly (HH) Metering Systems installed for Settlement purposes comply with the relevant metering Code of Practice (CoP) specifications and that they operate in accordance with the associated Balancing and Settlement Code (BSC) Procedures (BSCP). The technique is detailed in Section L7 of the BSC and in BSCP27 – ‘Technical Assurance of Half Hourly Metering Systems for Settlement Purposes.’

The TAA inspects a representative sample of HH Metering Systems registered in the Supplier Volume Allocation (SVA) and Central Volume Allocation (CVA) markets each BSC Audit year. The sample is set by the Performance Assurance Board (PAB) in accordance with section 1.9 of BSCP27.

The total number of inspection visits performed in any BSC Audit year will include a main sample, re-inspection visits, a specific sample (SVA only) and any targeted inspection visits (SVA and CVA).

1.3 Important notes regarding this report

All summed percentage totals may not equal exactly 100% due to rounding.

2 SVA

2.1 CDC Check

Visit Type	Compliant	Non-compliant	Metering Systems accessed
Main Sample	1024	9	1033
Specific Sample	51	8	59
Targeted	3		3
Re-visit	2		2
Totals	1080	17	1097

Table 1 CDC check summary for those where access has been provided



2.2 Types of non-compliances identified during 2009-2010

Visit Type	%	Number of Visits	No NCs	HasCat1	HasCat2	HasNC ¹	HasObs
Main Sample	55.90%	577			✓		
Main Sample	34.30%	354	✓				
Main Sample	4.90%	51		✓	✓		
Main Sample	3.00%	31		✓			
Main Sample	0.80%	8			✓		✓
Main Sample	0.50%	5			✓	✓	
Main Sample	0.20%	2		✓	✓	✓	
Main Sample	0.20%	2		✓	✓		✓
Main Sample	0.10%	1				✓	
Main Sample	0.10%	1					✓
Main Sample	0.10%	1	✓			✓	✓
Specific Sample	47.5%	28		✓	✓		
Specific Sample	28.8%	17			✓		
Specific Sample	10.2%	6		✓	✓	✓	
Specific Sample	6.8%	4			✓		✓
Specific Sample	1.7%	1	✓				
Specific Sample	1.7%	1			✓	✓	
Specific Sample	1.7%	1		✓	✓		✓
Specific Sample	1.7%	1		✓	✓	✓	✓
Targeted	100%	3			✓		
Re-Inspection	100%	2	✓				



Table 2 Number and % of visits where non-compliances are found by Category

¹ If the CDC check identifies a discrepancy, this will raise an NC category non-compliance.

Company Group	Number of Visits	1.01	1.02	1.03	1.06	Total number of Cat 1	Average Cat1 per visit
SCG01	67	14	1	4	0	19	0.28
SCG02	64	4	1	0	1	6	0.09
SCG03	153	22	0	1	0	23	0.15
SCG04	246	16	5	2	0	23	0.09
SCG05	16	6	0	0	0	6	0.38
SCG06	29	3	0	0	0	3	0.10
SCG07	1	0	0	0	0	0	0.00
SCG08	188	23	2	2	0	27	0.14
SCG09	4	0	0	0	0	0	0.00
SCG10	47	6	1	0	0	7	0.15
SCG11	8	0	0	0	0	0	0.00
SCG12	274	25	3	1	0	29	0.11
Totals/Averages	1097	119	13	10	1	143	0.13



Table 3 Summary of Category 1 non-compliances

A table detailing the category 1 non-compliance references and their associated descriptions can be found in appendix 1 of this document



Question	1.01	1.02	1.03	1.06	%
Miscellaneous		1			1%
Are all the CT links in the open position and the CTs not shorted out?		3			1%
Are the calculated results and the recorded meter results within an acceptable tolerance?		7			5%
D0268 shows complex marker as false when site appear to be complex.	1				1%
Does the Data Collector Meter Details data match the TAA Agent data?	14				10%
Does the Data Collector Meter Register Details data match the TAA Agent data?	62				43%
Does the Data Collector MPAN Core data match the TAA Agent data?	6				4%
Does the Data Collector Outstation data match the TAA Agent data?	5				4%
Inspection identified that the Outstation display was not advancing		1			1%
Is the Metering System clock within the allowable tolerance as detailed in section 4.2 of BSCP27?			10		7%
Metering Equipment Incorrect or Unsatisfactory. Metering Equipment not functioning correctly. Blue phase failure.		1			1%
Metering System not deemed complex although flag set to yes in D0268. Potential Settlement Impact	31				21%
Metering units removed 12/11/2009 other systems still have circuit identified as energised.				1	1%
Totals	119	13	10	1	

Table 4 Category 1 non-compliances found

Company Group	Number of Visits	2_01	2_02	2_03	2_06	2_09	2_10	2_11	2_13	2_14	2_15	2_16	2_17	Total number of Cat 2	Average Cat 2 per visit
SCG01	67	35	5	8	36			4	6	4	31	45	25	199	2.97
SCG02	64	5	5	1	16	1		5		4	25	22	14	98	1.53
SCG03	153	14		5	58	1		14	5	6	63	52	28	246	1.61
SCG04	246	38	7	10	74	6		23	6	18	110	73	65	430	1.75
SCG05	16	1			7				2	1	10	9	6	36	2.25
SCG06	29	5	4		16	3		3		1	17	15	7	71	2.45
SCG07	1													1	1.00
SCG08	188	8	9	1	50	8	1	11	3	5	82	59	34	271	1.44
SCG09	4	1			1					1	2		2	7	1.75
SCG10	47	2	2		15			3		4	16	18	5	65	1.38
SCG11	8				5					1	4	9	3	22	2.75
SCG12	274	18	8	8	76	4		12	2	13	112	88	43	384	1.40
Totals/Averages	1097	127	40	33	354	23	1	75	24	58	472	390	232	1829	1.67



Table 5 Summary of Cat 2 non-compliances

A table detailing the category 2 non-compliance references and their associated descriptions can be found in appendix 2 of this document

Question	2.01	2.02	2.03	2.06	2.09	2.10	2.11	2.13	2.14	2.15	2.16	2.17	%
Is there a commissioning certificate(s)?										472			26%
Is overall accuracy maintained?				321									18%
Are there valid CT certificates or Generic Statements?											237		13%
Are the Meter Test certificates valid?												211	12%
Are there valid VT certificates where appropriate or valid Generic Statements?											149		8%
Are all meter seals intact?							69						4%
Issues relating to the recording of complex metering on specific sample MPANs	67		6										4%
Is the Metering System clock within the allowable tolerance as detailed in section 4.2 of BSCP27?									57				3%
Is the phase rotation correct?	29												2%
Does the Data Collector Meter Details data match the TAA Agent data?		23											1%
Does the MOP MPAN Core data match the TAA Agent data?	3		21										1%
Is the fusing in accordance with the correct version of the CoP?					21								1%
Does the Data Collector MPAN Core data match the TAA Agent data?		11	3										1%
Does the MOP Meter Details data match the TAA Agent data?	11		1										1%
Does the MOP Meter Register Details data match the TAA Agent data?	11												1%
Is there a valid CoP4 certificate(s) where appropriate?												17	1%
Other	6	6	2	33	2	1	6	24	1	8	4	4	5%



Question	2.01	2.02	2.03	2.06	2.09	2.10	2.11	2.13	2.14	2.15	2.16	2.17	%
Totals	127	40	33	354	23	1	75	24	58	472	390	232	26%

Table 6 Most frequent Category 2 non-compliances found during the year

Status	2_01	2_02	2_03	2_06	2_09	2_10	2_11	2_13	2_14	2_15	2_16	2_17	Total
Non-Compliance Outstanding	93	7	24	316	10	1	4	22	11	297	356	159	1300
Rectified Pending Confirmation	9	6	6	22				2	4	49	26	11	135
Rectified During Inspection Visit	3				6		68		35	28		1	141
Resolved	22	27	3	16	7		3		8	98	8	61	253
Total	127	40	33	354	23	1	75	24	58	472	390	232	1829



Table 7 Cat 2 non-compliances identified by Category and current status

Status	2_01	2_02	2_03	2_06	2_09	2_10	2_11	2_13	2_14	2_15	2_16	2_17
Non-Compliance Outstanding	73%	18%	73%	89%	44%	100%	5%	92%	19%	63%	91%	69%
Rectified Pending Confirmation	3%	0%	0%	0%	26%	0%	91%	0%	60%	6%	0%	0%
Rectified During Inspection Visit	7%	14%	18%	6%	0%	0%	0%	8%	7%	10%	7%	5%
Resolved	17%	68%	9%	5%	30%	0%	4%	0%	14%	21%	2%	26%

Table 8 Cat 2 non-compliances identified by Category and current status (percentages)

2.3 Rectification of Category 1 non-compliances

Notified Month	Number of NCs	Average WD to resolve			
		1.01	1.02	1.03	1.06
Apr 2009	13	24			
May 2009	19	21	4	3	
Jun 2009	13	19			
Jul 2009	10	64			
Aug 2009	0				
Sep 2009	2	9			
Oct 2009	12	10			
Nov 2009	11	33			
Dec 2009	0				
Jan 2010	3	13	42		
Feb 2010	8	19	3	2	
Mar 2010	2	28	11		
Average days to resolve		24	15	3	
Total identified	143				
Resolved	93				
Closed	3				
Unresolved	47				



Table 9 Category 1 non-compliances average speed of resolution

2.4 Queries

Role Raiser	Query Upheld	Query Invalid	Raised	Total
Data Collector	10	0	0	10
Meter Operator Agent	21	41	1	63
Registrant	0	0	2	2
Totals	31	41	3	75

Table 10 Number of Queries raised by Participant for year 2009-2010

2.5 Appeals

There were no Appeals during 2009-2010.



2.6 Potential Settlement impacting non-compliance calculations

Visit Reference	Clock Timing Errors MWh	Timing Error Seconds
A	890.6	3600
B	876	3600
C	-61.03	-114
D	0.11	480
E	0.53	50
F	0.53	50
G	0.53	50
H	48.18	180
I	1445.40	1800
Totals	3200.85	9696.00



Table 11 Audits were there has been a potential for a material error identified as a result of clock timing issues

Visit Reference	Errors MWh
J	963.69
K	67.32
L	476.00
M	415.66
N	81.03
O	328.50
P	3679.20
Q	2312.64
Totals	8324.04

Table 12 Audits were there has been a potential for a material error identified

2.7 Appointment statistics summary

Visit Type	Visits Planned	Of those planned		Of those visited	
		Visits Cancelled	Visited	Access Gained	No Access
Main Sample	1229	115	1114	1033	81
Specific Sample	63	2	61	59	2
Targeted	3	0	3	3	0
Re-inspections	2	0	2	2	0
Totals	1297	117	1180	1097	83

Table 13 Total SVA visits by Visit Type/Status

Visit Type	Visits Planned	Of those planned		Of those visited	
		Visits Cancelled	Visited	Access Gained	No Access
Main Sample	1229	9%	91%	93%	7%
Specific Sample	63	3%	97%	97%	3%
Targeted	2	0%	100%	100%	0%
Re-inspections	2	0%	100%	100%	0%
Total	1297	9%	91%	93%	7%

Table 14 Percentage SVA visits by Visit Type/Status



2.8 Supplier Statistics

Company Group	Visits Planned	Count		Percentage	
		Visits Cancelled	Visited	Visits Cancelled	Visited
SCG01	76	3	73	4%	96%
SCG02	81	9	72	11%	89%
SCG03	176	17	159	10%	90%
SCG04	285	19	266	7%	94%
SCG05	20	2	18	10%	90%
SCG06	37	5	32	14%	86%
SCG07	1	0	1	0%	100%
SCG08	240	29	211	12%	88%
SCG09	5	1	4	20%	80%
SCG10	49	2	47	4%	96%
SCG11	8	0	8	0%	100%
SCG12	318	29	289	9%	91%
SCG13	1	1	0	100%	0%
Total	1297	117	1180	9%	91%



Table 15 Total number and percentage of visits by Supplier Company Group

Company Group	MPID	Visits Planned	Count		Percentage	
			Visits Cancelled	Visited	Visits Cancelled	Visited
SCG01	SMPID12	76	3	73	4%	96%
SCG02	SMPID05	81	9	72	11%	89%
SCG03	SMPID14	176	17	159	10%	90%
SCG04	SMPID09	274	16	258	6%	94%
SCG04	SMPID18	5	2	3	40%	60%
SCG04	SMPID22	6	1	5	17%	83%
SCG05	SMPID23	20	2	18	10%	90%
SCG06	SMPID17	37	5	32	14%	86%
SCG07	SMPID15	1	0	1	0%	100%
SCG08	SMPID11	240	29	211	12%	88%
SCG09	SMPID13	5	1	4	20%	80%
SCG10	SMPID10	1	0	1	0%	100%
SCG10	SMPID21	48	2	46	4%	96%
SCG10	SMPID19	8	0	8	0%	100%
SCG12	SMPID08	57	3	54	5%	95%
SCG12	SMPID20	261	26	235	10%	90%
SCG13	SMPID02	1	1	0	100%	0%
	Total	1297	117	1180	9%	91%



Table 16 Total number and percentage of visits by Supplier MPID

2.9 MOA Statistics

Company Group	Visits Planned	Count		Percentage	
		Visits Cancelled	Visited	Visits Cancelled	Visited
MCG01	180	8	172	4%	96%
MCG02	95	9	86	9%	91%
MCG03	187	29	158	16%	84%
MCG04	1	1	0	100%	0%
MCG05	174	10	164	6%	94%
MCG06	105	4	101	4%	96%
MCG07	274	43	231	16%	84%
MCG08	112	5	107	4%	96%
MCG09	87	6	81	7%	93%
MCG10	82	2	80	2%	98%
Total	1297	117	1180	9%	91%



Table 17 Total number and percentage of visits by MOA Company Group

Company Group	MPID	Visits Planned	Count		Percentage	
			Visits Cancelled	Visited	Visits Cancelled	Visited
MCG01	MMPID03	180	8	172	4%	96%
MCG02	MMPID10	95	9	86	9%	91%
MCG03	MMPID04	187	29	158	16%	84%
MCG04	MMPID12	1	1	0	100%	0%
MCG05	MMPID05	49	0	49	0%	100%
MCG05	MMPID11	125	10	115	8%	92%
MCG06	MMPID02	33	1	32	3%	97%
MCG06	MMPID07	72	3	69	4%	96%
MCG07	MMPID01	274	43	231	16%	84%
MCG08	MMPID08	112	5	107	4%	96%
MCG09	MMPID06	87	6	81	7%	93%
MCG10	MMPID09	82	2	80	2%	88%
Total		1297	117	1180	9%	91%

Table 18 Total number and percentage of visits by MOA MPID

2.10 Appointments cancelled

Appointment Status	SCG01	SCG02	SCG03	SCG04	SCG05	SCG06	SCG07	SCG08	SCG09	SCG10	SCG11	Total	%
Cancelled - De-en and/or no meter			3	2	1	1	2					9	8%
Cancelled - MOA does not have a contract with the customer					2		1					3	3%
Cancelled - MOP Unable to Attend					1							1	1%
Cancelled - No longer a Measurement Class C Site		1			4						1	6	5%
Cancelled - Pending Change of Participant	1	2	2	3	4		7		1			20	17%
Cancelled - Prior to visit as unsafe site			2	1			5					8	7%
Cancelled - Severe Weather Conditions	1	3	6	3	10		5			1		29	25%
Cancelled - Supplier unable to secure access		2	3	6	3		7	1	1			23	20%
Cancelled - Supply Disconnected					2		1		1			4	3%
Cancelled - TAA Unable to Attend	1	1	1	2	1			1	1			8	7%
Cancelled - To be rescheduled				2	1	1	1		1			6	5%
Cancelled - De-en and/or no meter			3	2	1	1	2					9	8%
Cancelled - MOA does not have a contract with the customer					2		1					3	3%
Cancelled - MOP Unable to Attend					1							1	1%
Cancelled - No longer a Measurement Class C Site		1			4						1	6	5%
Total	3	9	17	19	29	2	29	2	5	1	1	117	



Table 19 Cancelled² appointments by Supplier Company Group

² A Cancelled visit is one which was scheduled but subsequently aborted with no site visit taking place. When a cancellation is processed the TAA will seek to provide a replacement Metering System for the same Supplier and MOA as the one which was cancelled in the geographic vicinity.

Number of Working Days Notice	SCG01	SCG02	SCG03	SCG04	SCG05	SCG08	SCG10	SCG12	Total
1				3		2		2	7
2									
3					1	1		1	3
4	1			1					2
5		1				5	1		7
6			1					2	3
7									
8									
9			1					2	3
10			1						1
Total	1	1	3	4	1	8	1	7	26



Table 20 Number of Working Days notice between the planned inspection and the cancellation.



2.11 Appointments with no access by Supplier

Company Group	Visits	Access Achieved	No Access	Access Achieved	No Access
SCG01	61	55	6	90%	10%
SCG02	72	64	8	89%	11%
SCG03	148	142	6	96%	4%
SCG04	244	226	18	93%	7%
SCG05	17	15	2	88%	12%
SCG06	29	26	3	90%	10%
SCG07	1	1	0	100%	0%
SCG08	205	182	23	89%	11%
SCG09	4	4	0	100%	0%
SCG10	45	45	0	100%	0%
SCG11	6	6	0	100%	0%
SCG12	282	267	15	95%	5%
Totals	1114	1033	81	93%	7%

Table 21 Summary of visits and access rate by Supplier (Main Sample)



Company Group	Visits	Access Achieved	No Access	Access Achieved	No Access
SCG01	12	12		100%	0%
SCG03	11	11		100%	0%
SCG04	21	19	2	90%	10%
SCG05	1	1		100%	0%
SCG06	3	3		100%	0%
SCG08	4	4		100%	0%
SCG10	2	2		100%	0%
SCG11	2	2		100%	0%
SCG12	5	5		100%	0%
Totals	61	59	2	97%	3%

Table 22 Summary of visits and access rate by Supplier (Specific Sample)

Company Group	Visits	Access Achieved	No Access	Access Achieved	No Access
SCG08	2	2	0	100%	0%
SCG12	1	1	0	100%	0%
Totals	3	3	0	100%	0%

Table 23 Summary of visits performed and access rate by Supplier (Targeted)

Company Group	Visits	Access Achieved	No Access	Access Achieved	No Access
SCG04	1	1	0	100%	0%
SCG12	1	1	0	100%	0%
Totals	2	2	0	100%	0%

Table 24 Summary of visits performed and access rate by Supplier (Re-Visit)

2.12 Appointments with no access by MOA

Company Group	Visits	Access Achieved	No Access	Access Achieved	No Access
MCG01	153	135	18	88%	12%
MCG02	83	78	5	94%	6%
MCG03	154	141	13	92%	8%
MCG05	154	140	14	91%	9%
MCG06	93	86	7	92%	8%
MCG07	218	209	9	96%	4%
MCG08	102	94	8	92%	8%
MCG09	77	72	5	94%	6%
MCG10	80	78	2	98%	2%
Totals	1114	1033	81	93%	7%



Table 25 Summary of visits and access rate by MOA (Main Sample)



Appointment Status	SCG01	SCG02	SCG03	SCG04	SCG05	SCG06	SCG07	SCG08	SCG09	SCG10	SCG11	SCG12	Total
No Access - LSDO and/or SAP attendance required to access Metering Equipment.				3		1							4
No Access - MOA unable to secure access	1											2	3
No Access - Other Reason (onsite)	1	1	1	1									4
No Access - Premises closed/unoccupied and no-one available to provide access.	2	3	3	5		1		8				4	26
No Access - Site visited customer unable to provide access	1	1	1	4				5				3	15
No Access - Site visited customer unavailable to provide access		3		4	1	1		6				3	18
No Access - Site visited customer unwilling to provide access			1					1					2
No Access - Supply Disconnected				1									1
No Access - Unsafe access.	1			2	1			3				3	10
Total	6	8	6	20	2	3	0	23	0	0	0	15	83
Number visited	73	72	159	265	18	32	1	209	4	47	8	287	1175
% no access	8%	11%	4%	8%	11%	9%	0%	11%	0%	0%	0%	5%	7%

Table 26 No Access³ visits by Supplier Company Group and reason

³ A No Access visit is one which was attended by the TAA Auditor, however due to individual circumstances the audit could not take place.

2.13 Completed audits (SVA)⁴

GSP Group Name	GSP	% of full GB coverage	% Visited	Count sampled
Eastern	_A	11%	9%	107
East Midlands	_B	11%	11%	130
London	_C	13%	11%	139
Merseyside and North Wales	_D	4%	3%	33
Midlands	_E	9%	10%	111
Northern	_F	5%	7%	87
North Western	_G	8%	8%	95
Southern	_H	10%	7%	92
South Eastern	_J	6%	7%	80
South Wales	_K	3%	4%	48
South Western	_L	4%	4%	41
Yorkshire	_M	8%	9%	107
South Scotland	_N	5%	6%	71
North Scotland	_P	3%	4%	39
			Total	1180



Table 27 Visited Metering Systems by GSP Group

⁴ This sample includes all SVA visits including main sample, specific sample, targeted and re-inspections.



Supplier MPID	% of full GB coverage	% Visited	Count sampled
SMPID01	0.0%	0.0%	
SMPID02	0.1%	0.0%	
SMPID03	0.0%	0.0%	
SMPID04	0.0%	0.0%	
SMPID05	8.7%	6.1%	72
SMPID06	0.0%	0.0%	
SMPID07	0.1%	0.0%	
SMPID08	5.0%	4.6%	54
SMPID09	21.7%	21.9%	258
SMPID10	0.1%	0.1%	1
SMPID11	18.3%	17.9%	211
SMPID12	4.5%	6.2%	73
SMPID13	0.3%	0.3%	4
SMPID14	11.5%	13.5%	159
SMPID15	0.1%	0.1%	1
SMPID16	0.0%	0.0%	
SMPID17	2.6%	2.7%	32
SMPID18	0.5%	0.3%	3
SMPID19	0.4%	0.7%	8
SMPID20	19.5%	19.9%	235
SMPID21	3.8%	3.9%	46
SMPID22	0.8%	0.4%	5
SMPID23	1.6%	1.5%	18
SMPID24	0.4%	0.0%	
		Total	1180

Table 28 Visited Metering Systems by Supplier MPID

MOA MPID	% of full GB coverage	% Visited	Count sampled
MMPID01	21.5%	19.6%	231
MMPID02	2.1%	2.7%	32
MMPID03	15.1%	14.6%	172
MMPID04	10.3%	13.4%	158
MMPID05	0%	4.2%	49
MMPID06	8.7%	6.9%	81
MMPID07	5.5%	5.8%	69
MMPID08	7.7%	9.1%	107
MMPID09	7.5%	6.8%	80
MMPID10	7.3%	7%	86
MMPID11	13.5%	9.7%	115
		Total	1180



Table 29 Visited Metering Systems by MOA

3 CVA

3.1 CDC Check

Visit Type	Compliant	Non-compliant	Check not performed	Metering Systems accessed
Main Sample	45	0	0	45
Targeted	13	0	0	13



Table 30 CDC check and outcome

3.2 Non-compliances identified during 2009-2010

Visit Type	%	Number of Visits	No NCs	HasCat1	HasCat2	HasNC	HasObs
Main Sample	82%	37			✓		
Main Sample	16%	7	✓				
Main Sample	2%	1					✓
Targeted		1		✓	✓		
Targeted		12			✓		

Table 31 Number and % of visits where non-compliances are found by Category



Question	1_02	2_01	2_02	2_03	2_06	2_11	2_13	2_15	2_16	2_17	Total
Are the calculated results and the recorded meter results within an acceptable tolerance?	1										1
Is there a commissioning certificate(s)?								45			45
Meter test Certificates?										4	4
Is there a valid CoP4 certificate(s), where appropriate?										8	8
Is the phase failure correct?		4									4
Are there valid CT certificates or Generic Statements?									19		19
Are there valid VT certificates where appropriate or valid Generic Statements?									14		14
Is overall accuracy maintained?					21						21
DCs MTDs Correct?			6								6
MOP MTDs Correct?		2		2							4
Meter Panel?						2					2
Other							16				16
Totals	1	6	6	2	21	2	16	45	33	12	144

Table 32 Summary non-compliances identified during the year

Status	1_02	2_01	2_02	2_03	2_06	2_11	2_13	2_15	2_16	2_17	Total
Non-Compliance Outstanding	1	3	5	2	21		12	43	33	12	132
Rectified During Inspection Visit		1				2			1		4
Resolved		2	1					4	1		8
Totals	1	6	6	2	21	2	16	45	33	12	144

Table 33 Counts of non-compliances found and current status

3.3 Appointments planned and cancelled

Visit Type	Visits Planned	Visits Cancelled	Visited
Main Sample	49	3	46
Targeted	13	0	13

Table 34 Number of visits planned and outcome

MOA	Visits Planned	Visits Cancelled	Accessible	No Access
CRCG01	23	3	20	0
CRCG02	5	0	5	0
CRCG03	1	0	1	0
CRCG04	2	0	2	0
CRCG05	6	0	6	0
CRCG06	13	0	12	1
CRCG07	12	0	12	0
Total	62	3	58	1

Table 35 Number of visits planned and outcome by MOA

3.4 No access

Visit Type	Metering Systems Visited	No Access	Accessible
Main Sample	46	1	45
Targeted	13	0	13

Table 36 Number of visits where access was not achieved



4 Appendices

4.1 Appendix 1 – Category 1 – Non Compliance Descriptions

Category	Description
1.01	<p>Inaccuracy of Standing Data (Key MTD fields) held by Data Collector</p> <ul style="list-style-type: none"> • Outstation serial number • Meter ID (serial number) • Outstation number of channels • Measurement Quantity ID • Meter Register Multiplier • Pulse multiplier • Channel configuration • Outstation multiplier / Outstation channel multiplier • Complex Site Supplementary Information Form (SVA only)
1.02	<p>Metering Equipment Incorrect or Unsatisfactory</p> <ul style="list-style-type: none"> • Metering Equipment not functioning correctly • Metering Equipment not programmed correctly • Overall accuracy of Metering System not maintained • Summation CTs used • Correct Energy Measurement Check (Primary/Secondary conductor prevailing load test) indicates an error in the metered volume
1.03	<p>Timing Error (Major)</p> <ul style="list-style-type: none"> • Outstation clock outside agreed tolerance
1.04	<p>Measurement Transformer Ratios Physically Incorrect</p> <ul style="list-style-type: none"> • Measurement transformer ratios different from those set up in Meter (save for any difference being consistent with a measurement error compensation applied within the Metering Equipment)
1.05	<p>Compensation Calculations Incorrect</p> <ul style="list-style-type: none"> • Meter compensation for Measurement Transformers incorrectly applied or not applied • Meter compensation for Power Transformers incorrectly applied or not applied
1.06	<p>Miscellaneous</p> <ul style="list-style-type: none"> • Other non-compliance not covered elsewhere



4.2 Appendix 2 – Category 2 – Non Compliance Descriptions

Category	Description
2.01	Inaccuracy of Standing Data held by Meter Operator Agent <ul style="list-style-type: none"> • Outstation serial number • Meter Id (serial number) • Outstation number of channels • Measurement Quantity Id • Meter Register Multiplier • Pulse multiplier • Channel configuration • Outstation multiplier / Outstation channel multiplier • Measurement Transformer Ratios • Complex Site Supplementary Information Form (SVA only)
2.02	Inaccuracy of Standing Data (non-Key MTD fields) held by Data Collector <ul style="list-style-type: none"> • Data Collector's Meter Technical Details do not match on site equipment due to recent Meter Exchange • Other non-Key fields (e.g. Measurement Transformer Ratios)
2.03	Non-provision of Standing Data <ul style="list-style-type: none"> • Meter Technical Details not provided – Meter Operator Agent and Data Collector • Complex Site Supplementary Information Form not provided (SVA only)
2.04	Not used
2.05	Not used
2.06	Metering Equipment Incorrect or Unsatisfactory <ul style="list-style-type: none"> • Incorrect CoP applied • Check Meter missing • Main Meter missing, Check Meter present and accurate • Voltage selection relay not installed/working when Summation CTs used • Meter accuracy class incorrect • CT accuracy class incorrect • VT accuracy class incorrect • Unapproved data format and protocol in use • Possibility that overall accuracy of Metering System not maintained
2.07	Measurement Transformer and/or Meter Certificates <ul style="list-style-type: none"> • Certificates not provided • Certificates do not match on-site equipment
2.08	Unsuitable Environment <ul style="list-style-type: none"> • Environmental conditions likely to cause Metering Equipment failure
2.09	Inadequate Over-current Protection <ul style="list-style-type: none"> • Insufficient discrimination between source and local fusing • No local isolation • Main and check Meters not separately fused • Other Metering Equipment not separately fused • Non-Settlement Meters not separately fused



2.10	Separate Phase Failure Alarms Not Installed or Inadequate/Failed - Local and Remote <ul style="list-style-type: none"> Alarm not fitted where required Alarm not functioning
2.11	Inadequate Metering Equipment Integrity <ul style="list-style-type: none"> Settlement Metering Equipment not sealed Password functionality not included in Outstation
2.12	Metering Equipment Test Facilities <ul style="list-style-type: none"> Lack of adequate Metering Equipment test facilities
2.13	Miscellaneous <ul style="list-style-type: none"> Other non-compliance not covered elsewhere
2.14	Timing Error (minor) <ul style="list-style-type: none"> Outstation clock outside agreed tolerance
2.15	Commissioning Records <ul style="list-style-type: none"> Commissioning records not provided Commissioning records incorrect Commissioning records incomplete
2.16	Measurement Transformer Certificates not provided or incorrect <ul style="list-style-type: none"> Measurement Transformer Certificates not provided Measurement Transformer Certificates do not match site equipment
2.17	Meter Certificates not provided or incorrect <ul style="list-style-type: none"> Meter Certificates not provided Meter Certificates do not match site equipment



<End>