

BILLING METER TEST REPORT

CUSTOMER: NORTHWIND POWER CORP.
MTR POINT: LAGAN ERETAJON
PROVINCE: ILOCOS NORTH
Purpose of Test: Routine / 1st Division

Time Opened: 10:47 AM
Time Closed: 10:48 AM
Date: May 5, 2008
Special Request: None

SPECIFICATIONS			Unregistered Energy while Meter is Under Test				
Multifunction Meter	Code ID - Normal Display	PARAMETERS	Phase A	Phase B	Phase C	Total	
Make: SCHLUMBERGER	SEGMENT TEST	Phase Voltage Angl	0.00	119.83	240.22		
Type: Q1000	CUSTOMER NAME	Phase Voltage	100.85	111.92	111.81		
Ser No: 19665417	CURRENT DATE	Phase Current Angl	225.07	341.96	87.51		
CTA: 10/1.5AMP	CURRENT TIME	Phase Current	1.46	1.03	1.24		
Rn: 1.5	KWHR DELIVERED	Instantaneous KW	-0.32	Kilowatt		-1120.00	
Test Kh: 1.8	KVARH DELIVERED	Instantaneous Kvar	-0.24	Kilovar (lag)		-860.00	
V Rating: 100V - 120V	KWHR RECEIVED	Power Factor	0.77				
Options: Recorder	KVARH RECEIVED	Test Duration	mins > 20	hrs >	0.323		
SCHEME: 4WY	CONT. CUM. DELIVERED	Multiplier			3500		
	CUM. DELIVERED	FORMULA: Unregistered KWh = Kilowatt x Test Duration (hrs)					
	CONT. CUM. RECEIVED	Unregistered Energy (To be added to Power Bill)					
CTR: 350:1V	CUM. KW RECEIVED			KWh		-373	
CTR: 50:5AMP	DEMAND RESET COUNT			KVarH		-280	
	FREQUENCY						

METERING EQUIPMENT DATA

PARTICULAR	SEAL NUMBER		REGISTER MULTIPLIER		METER READING (NORMAL DISPLAY)					
	Old	New	OLD	NEW		TOTAL		DEMAND		RESET
						KWHR	KVARH	CCUM KW	CUM KW	
Kwhr/Kvarh	52449	52347	3,500		AS FOUND DEL.	7.21	0.00	0.134	0.073	3
Reset lever	52587	52228			AS FOUND REC.	23.46	107.38	2.131	0.873	
Test Block	52186	52290			AS LEFT DEL.	7.21	0.00	0.134	0.073	FREQ.
Meter Box	NONE				AS FOUND REC.	23.46	107.38	2.131	0.873	60

TEST PROPER

PARAMETERS			% Acc.	Test Ratio		Actual		%	%	REMARKS
METER	P.F.	LOAD	Limit	Meter	Std	Meter	Standard	Acc	Error	
A	1	FL	+0.3%							
B	1	FL								
C	1	FL								
Series	1	FL				20		100.000	0.000	ACCURACY WITHIN MSG STANDARD TOLERABLE LIMIT
Series	0.5	FL				20		100.100	0.100	
Series	1	LL				1		100.010	0.010	

CIRCUIT ADMITTANCE TEST				Phase A	5.17	Phase B	5.47	Phase C	4.47
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INSTRUMENT USED:

Remarks/Recommendations:

- CONDUCTED TESTING AND CALIBRATION OF BILLING METER
- UNREGISTERED ENERGY DURING TESTING TO BE ADDED TO THE MONTHLY POWER BILL COMPUTATION
- FOR CHANGE CT TAP TO HIGHER RATIO, IF THERE IS ADDITIONAL GENERATION THAT CAN OVERLOAD EXISTING CT TAP RATIO OF 50:5 AMP. SETTING.

TESTED BY: E. O. R. JESUS

In the Presence of / Cop. Received by:

DATE: May 5, 2008

(Signature)

NATIONAL TRANSCO
METERING SERVICES GROUP
METER EQUIPMENT MAINTENANCE & DATA RETRIEVAL
NORTH LUZON - North
 Pampalanan Road, Purok 11, San Fernando City, P.I.U.

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BILLING METER TEST REPORT

CUSTOMER : NORTHWIND DEVT. CORPORATION
MET. POINT : LAOAG SUBSTATION
PROVINCE : ILOCOS NORTE
Purpose of Test : Routine Maintenance \ \

Time Opened : 11:06AM
Time Closed : 11:31AM
Date : June 9, 2005
Special Request : \ X \

SPECIFICATIONS					Unregistered Energy while Meter is Under Test					
Multifunction Meter			Code ID - Normal Display		PARAMETERS	Phase A	Phase B	Phase C	Total	
Make	SCHLUMBERGER		SEGMENT TEST		Phase Voltage Angle	0.00	119.93	240.78		
Type	Q1000		CUSTOMER NAME		Phase Voltage	114.41	116.50	116.29		
Ser No.	19665417		CURRENT DATE		Phase Current Angle	267.40	29.50	153.89		
CNTA	10/2.5AMP		CURRENT TIME		Phase Current	0.23	0.24	0.23		
Kh	1.8		KWHR DELIVERED		Instantaneous KW	0.00	Kilowatt			
Test Kh	1.8		KVARH DELIVERED		Instantaneous Kvar	0.00	Kilovar (lag)			
V Rating	100V - 120V		KWHR RECEIVED		Power Factor					
Options	Recorder		KVARH RECEIVED							
			CONT. CUM. DELIVERED		Test Duration		mins > 25	hrs >	0.417	
SCHEME : 4WY			CUM. DELIVERED		Multiplier				14000	
			CONT. CUM. RECEIVED		FORMULA: Unregistered KWh = Kilowatt x Test Duration (hrs)					
			CUM. KW RECEIVED.		Unregistered Energy (To be added to Power Bill)		KWh	NO LOAD		
PTR	350:1V		KVarH							
CTR	OLD	50:5A	DEMAND RESET COUNT							
	NEW	200:5A	FREQUENCY							

METERING EQUIPMENT DATA

PARTICULAR	SEAL NUMBER		REGISTER MULTIPLIER		METER READING (NORMAL DISPLAY)				
	Old	New	OLD	NEW		TOTAL		DEMAND	
						KWHR	KVARH	CCUM KW	CUM. KW
Kwhr/Kvarh	52347	52338	3,500	14,000	AS FOUND DEL.	24.40	25.39	0.265	0.172
Reset lever	52228	52809			AS FOUND REC.	371.65	278.26	10.159	5.659
Test Block	52290	52260			AS LEFT DEL.	24.40	25.39	0.265	0.265
Meter Box	NONE				AS FOUND REC.	371.65	278.26	10.159	10.159
									5
									FREQ.
									59.981

TEST PROPER

PARAMETERS			% Acc. Limit	Test Ratio		Actual		% Acc	% Error	REMARKS
METER	P.F.	LOAD		Meter	Std	Meter	Standard			
A	I	FL	+0.3%							
B	I	FL								
C	I	FL								
Series	1	FL				20		100.000	0.000	
Series	0.5	FL				20		100.100	0.100	
Series	1	LL				1		100.010	0.010	TEST RESULT AS OF May 5, 2005

CIRCUIT ADMITTANCE TEST				Phase A	--	Phase B	--	Phase C	--
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INSTRUMENT USED:

Remarks/Recommendations:

- RETRIEVED BILLING METER DATA
- CHANGED BILLING CT RATIO TAP TO 200 : 5 AMP (X4 - X5).
- NEW MULTIPLIER 14,000
- RESET DEMAND METER

TESTED BY: E.O. RAMOS

CHECKED BY: M.L. MATA, JR.

Principal Engineer B

REVIEWED BY: HARRY B. CONSOLACION

PE A - MEMDR, NL-NORTH

In the Presence of / Copy Received By:

MICHAEL M. BANTUANO
 Area/District Representative

ARMEL B. DOMINGO
 Customer's Representative



NATIONAL TRANSCO
METERING SERVICES GROUP
 METER EQUIPMENT MAINTENANCE & DATA RETRIEVAL
 NORTH LUZON - North
 Pennsylvania Ave., Poro Pt., San Fernando City (L.U.)

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BILLING METER TEST REPORT

CUSTOMER : NORTHWIND DEVT. CORPORATION
 MET. POINT : LAOAG SUBSTATION
 PROVINCE : ILOCOS NORTE
 Purpose of Test : Routine Maintenance

Time Opened : 7:00 PM
 Time Closed :
 Date : AUG 11 2005
 Special Request : 1 X 1

SPECIFICATIONS				Unregistered Energy while Meter is Under Test				
Multifunction Meter	Code ID - Normal Display			PARAMETERS	Phase A	Phase B	Phase C	Total
Make	SEGMENT TEST			Phase Voltage Angle	0.0	11.71	12.45	
Type	CUSTOMER NAME			Phase Voltage	113.11	114.52	115.08	
Ser No.	CURRENT DATE			Phase Current Angle	27.14	10.00	12.00	
CTA	CURRENT TIME			Phase Current	0.00	0.00	0.17	
Kh	KWHR DELIVERED			Instantaneous KW	0.01	Kilowatt		
Test Kh	KVARH DELIVERED			Instantaneous Kvar	0.00	Kilovar (lag)		
V Rating	KWHR RECEIVED			Power Factor				
Options	KVARH RECEIVED			Test Duration	mins > 20		hrs >	
SCHEME : 4WY	CONT. CUM. DELIVERED			Multiplier	14000			
	CUM. DELIVERED			FORMULA: Unregistered KWh = Kilowatt x Test Duration				
	CONT. CUM. RECEIVED			Unregistered Energy (To be added to Power Bill)	KWh	C		
	CUM. KW RECEIVED				KvarH	0		
PTR	DEMAND RESET COUNT							
CTR	FREQUENCY							
	OLD	200.5A						
	NEW							

METERING EQUIPMENT DATA

PARTICULAR	SEAL NUMBER		REGISTER MULTIPLIER		METER READING (NORMAL DISPLAY)					
	Old	New	OLD	NEW	TOTAL		DEMAND		RESET	
Kwhr/Kvarh			14,000		AS FOUND DEL.	31.75	21.12	0.335		0.311
Reset lever					AS FOUND REC.	638.53	340.36	14.074	12.715	
Test Block					AS LEFT DEL.	0.0	0.0	-	0.0	FREQ.
Meter Box		NONE			AS FOUND REC.	0.0	0.0	-	0.0	

TEST PROPER

PARAMETERS			% Acc. Limit	Test Ratio		Actual		% Acc	% Error	REMARKS
METER	P.F.	LOAD		Meter	Std	Meter	Standard			
A	1	FL	±0.3%							
B	1	FL								
C	1	FL								
Series	1	FI				20		100.000	0.000	TEST RESULT AS OF May 5, 2005
Series	0.5	FI				20		100.100	0.100	
Series	1	LI			1		100.010	0.010		

CIRCUIT ADMITTANCE TEST	Phase A	Phase B	Phase C

Remarks/Recommendations: - RECONFIRMED PROGRAMMED PARAMETERS
ON NORMAL DISPLAY AND LOAD PROFILE (WITH SELF READ)
- RESET TO ZERO INITIAL REGISTRATION

TESTED BY: E. O. RAMOS
 SR. TECHNICIAN

CHECKED BY: M.L. MATA, JR.
 Principal Engineer B

REVIEWED BY: HARRY B. CONSOLACION
 PE A - MEMDR, NL-NORTH

In the Presence of / Copy Received By:

EASON A. SABAÑO
 LAOAG S/S
 Area/District Representative

E. M. DOMINGO
 Customer's Representative

INEC , NORTHWIND



NATIONAL TRANSCO
METERING SERVICES GROUP
METER EQUIPMENT MAINTENANCE & DATA RETRIEVAL
NORTH LUZON - North
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BILLING METER TEST REPORT

CUSTOMER : NORTHWIND DEVT. CORP.
MET. POINT : LAOAG SUBSTATION
PROVINCE : ILOCOS NORTE
Purpose of Test : Routine Maintenance

Time Opened : 11:41 AM
Time Closed : 12:36 PM
Date : NOV. 09, 2005
Special Request : \ X \

SPECIFICATIONS			Unregistered Energy while Meter is Under Test				
Multifunction Meter		Code ID - Normal Display	PARAMETERS		Phase A	Phase B	Phase C
Make	SHLUMBERGER	SEGMENT TEST	Phase Voltage Angle		0.00	119.98	240.37
Type	Q1000	CUSTOMER NAME	Phase Voltage		112.88	114.48	114.88
Ser No.	19665417	CURRENT DATE	Phase Current Angle		171.88	291.93	81.22
CNTA	10/2.5 AMP	CURRENT TIME	Phase Current		1.62	1.69	1.70
Kh	1.8	KWHR DELIVERED	Instantaneous KW	- 0.55	Kilowatt		- 7700
Test Kh	1.8	KVARH DELIVERED	Instantaneous KVAR	0.08	Kilovar (lag)		1120.00
V Rating	100V - 120 V	KWHR RECEIVED	Power Factor				
Options	RECORDER	KVARH RECEIVED					
SCHEME : 4WY		CONT. CUM. DELIVERED	Test Duration		mins> 55	hrs> 0.917	
		CUM. DELIVERED	Multiplier		14000		
		CONT. CUM. RECEIVED	FORMULA: Unregistered KWh=Kilowatt x Test Duration(hrs)				
PT RATIO : 350:1 V		CUM. KW RECEIVED	Unregistered Energy(To be added to Power Bill)		KWh	- 7061	
CT RATIO : 200:5 A		DEMAND RESET COUNT			KVarH	1027	
		FREQUENCY					

METERING EQUIPMENT DATA

PARTICULAR	SEAL NUMBER	REGISTER MULTIPLIER		METER READING (NORMAL DISPLAY)				
		OLD	NEW	TOTAL		DEMAND		RESET
				KWHR	KVARH	CCUM KW	CUM. KW	
Kwhr/Kvarh	52338 52927	14,000		As Found Del.	8.243639 84.9034	-----	0.088	10
Reset lever	52809 52809			As Found Rec.	490.1699 84.87632	-----	3.682408	
Test Block	52242 52014			As Left Del.	8.243639 84.9034	-----	0.088	-
Meter Box	NONE			As Left Rec.	490.1699 84.87632	-----	3.652408	

TEST PROPER

PARAMETERS			% Acc.	Test Ratio		Actual		%	%	REMARKS
METER	P.F.	LOAD	Limit	Meter	Std	Meter	Standard	Acc	Error	
A	1	FL	± 0.5%							
B	1	FL								
C	1	FL								
Series	1	FL				20		100.000	0.000	TEST RESULT LAST MAY 8, 2005
Series	0.5	FL				20		100.100	0.100	
Series	1	LL			1		100.010	0.010		
CIRCUIT ADMITTANCE TEST						PHASE A -		PHASE B -		PHASE C -

INSTRUMENT USED:

Remarks/Recommendations:

- ACCURACY TEST CONDUCTED BY ERC PERSONNEL.
- UNREGISTERED ENERGY DURING TESTING TO BE ADDED IN THE MONTHLY POWER BILL COMPUTATION
- NEXUS BACKUP METER NO PULSE OUTPUT AT TEST MODE AND NO REGISTRATION OF ENERGY DURING TESTING AT TEST MODE POSITION.

TESTED BY:

SR. TECHNICIAN

CHECKED BY:

M. L. MATA JR.
 PRINCIPAL ENGINEER B

REVIEWED BY:

HARRY B. CONSOLACION
 PE A - MEMDR, NL-NORTH

H. D. BARTOLOME
 Plant/Area Representative

Customer Representative

OFFICE OF THE PRESIDENT
ENERGY REGULATORY COMMISSION
PASIG CITY

No 1054704-M

REPORT OF ELECTRIC WATTHOUR METER TESTS

Operator/Owner: INEC (NORTHWIND) / TRANSOCO Date: NOV 5 2005
Address: 10000 NORTHWIND AVE. Prem: 10000
Meter: 10000 Type: 10000 Amps: 10000 Volts: 10000 Cycle: 60 Initial Reading: 10000
Reg. Ratio: 10000 Gear Ratio: 10000 Disc Kh: 10000 Line Voltage: 110 220 440
Dial Constant: 10000 Dial Test: 10000 Creeping: 10000 Creeping Rate: 10000

SERIAL NO.: 19 465 417 COMPANY NO.: 10000

Meter Condition: New/Old AS POUND Reading: Demand: Energy:

AMPERE LOAD	IDEAL TEST RATIO		ACTUAL TEST RATIO		CORRECTION FACTOR	PERCENT ACCURACY	PERCENT ERROR	AVERAGE ERROR
	METER	STANDARD	METER	STANDARD				
0A LL	1	3.0	2	3.6019		99.945	-0.055	
0B LL	2	3.0	2	3.6018		99.945	-0.055	
0C LL	3	3.0	2	3.6034		99.945	-0.055	
S LL	4	3.0	1	3.6005		99.945	-0.055	
FL	5	3.0	5	3.6007		99.974	-0.026	

Remarks: SP/SPMD/SPED/2S/2SMD/2SED/3S/3SMD/3SED/EPP/PM/WMS/OTHERS
METER ACCURACY WAS FOUND TOBE WITHIN THE TOLERANCE LIMIT SET BY THE COMMISSION & PGC

Meter Condition: New/Old AS LEFT Reading: Demand: Energy:

AMPERE LOAD	IDEAL TEST RATIO		ACTUAL TEST RATIO		CORRECTION FACTOR	PERCENT ACCURACY	PERCENT ERROR	AVERAGE ERROR
	METER	STANDARD	METER	STANDARD				
50% LL	5	3.0	5	3.0008		99.987	-0.013	
0E LL	TESTED IN THE PRESENCE OF							
FL	M. MATA							
LL	EXDOMINGO							
FL	TRANSOCO							

DATA ON STANDARD INSTRUMENT USED DURING THE ABOVE TESTS

Watthour Meter Standard Make and No. RADIAN RD 21 #1000066 Voltage 120/240/480
Light Load Rating Used: 0.25 Amps Heavy Load Rating Used: 25 Amps
Remarks: Tested Sealed Rejected Loading Device: PHANTOM LOAD

TESTED IN THE PRESENCE OF:

CHECKED BY: RA SALVILLO TESTED BY: RA ALBANO

NATIONAL TRANSCO
METERING SERVICES GROUP
MEMDR - NORTHERN LUZON NORTH
 City of San Fernando, La Union

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BILLING METER TEST REPORT

CUSTOMER : NORTHWIND DEVELOPMENT CORPORATION
 MET. POINT : Bangul, Ilocos Norte
 PROVINCE : ILOCOS NORTE
 Purpose of Test : Routine Maintenance / x /

Time Opened : 13:22
 Time Closed : 13:54
 Date : December 8, 2005
 Special Request : / /

SPECIFICATIONS

PARTICULARS	KWH / KVARH / KW DEM.
Make	SCHLUMBERGER
Type	Q1000
Serial No.	19665417
Class/T.A.	IEC In = 1A
Meter Constant	40 imp / wh
Aux Supply	115v
Voltage Rating	63.5 V
PTR: 230KV/115V	CTR : 1200/1

UNREGISTERED KILOWATTHOUR DURING TESTING

POWER	kw	kvar	MULTIPLIER	kw	kva
P1					
P2	-0.45	0.07	14000	-6300	980
P3					
EQUIVALENT PRIMARY KILOWATTS				-6300	980
DURATION OF TESTING, HRS. (Time closed-Time opened)				0.533	
UNREGISTERED KWHR = PRIM. KW x DUR. OF TEST				-3358	522
(To be included in the POWER BILL Computation)					

METERING EQUIPMENT DATA

PARTICULARS	SEAL NUMBER		MULTIPLIER		READING	
	OLD	NEW	OLD	NEW	AS FOUND (Q1000)	NEXUS 1272 As Left
MWHR Delivered	52062	51146	40TV Direct Reading	SAME Not Applicable	6.298196	0.0
MWHR Received					798.7005	0.0
MVarh Delivered					144.1671	0.0
MVarh Received					98.02050	0.0
Test Block	52014	51334				
Meter Cover						

TEST PROPER

METER PARAMETERS				DELIVERED				RECEIVED			
Meter Element	Power Factor	Load	Limiting Value	Pulse Count	Nsa	% Error	% Reg	Pulse Count	Nsa	% Error	% Reg
First	1.0	FL	+/- 2 %				Meter was tested at MSG Laboratory > accuracy within std limit				
Second	1.0	FL									
Third	1.0	FL									
Series	1.0	FL									
First	.5 lag	FL									
Second	.5 lag	FL									
Third	.5 lag	FL									
Series	.5 lag	FL									

REMARKS:

Q1000 was replaced w/ NEXUS 1272 SN 53-105693
 Northwind is delivering power to NRE.

TESTED BY: AR BARNUM / PESALVADOR
DATE TEST:

CHECKED BY:

PER MEMDR NIN

REVIEWED BY:

PER MEMDR NIN

NORTHWIND AUTHORIZED PER

HD BARTOLONE
 District Representative



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BILLING METER TEST REPORT

CUSTOMER : NORTHWIND DEVELOPMENT CORPORATION
MET. POINT : LAOAG SUBSTATION
PROVINCE : LOCOS NORTE

Date : JAN. 11, 2006
Time Opened : N/A
Time Closed : N/A

SPECIFICATIONS			Unregistered Energy while Meter is Under Test			
Multifunction Meter	Code ID - Normal Display	PARAMETERS	Phase A	Phase B	Phase C	Total
Make EIG	01 - Meter Name	Phase Voltage Angle				
Type NEXUS 1272	02 - KWH Delivered (Current Mo.)	Phase Voltage				
Ser No. 53105693	03 - Q1 KVARH Del. (Current Mo.)	Phase Current Angle	-	N/A	-	
CITA 20/2.5A	04 - KW Delivered (Current Month)	Phase Current				
Kh 0.36	05 - KWH Received (Current Mo.)	Instantaneous KW		Kilowatt		
Test Kh 1.8	06 - Q3 KVARH Rec. (Current Mo.)	Instantaneous Kvar		Kilovar (lag)		
Rating 115-480V	07 - KW Received (Current Month)					
Options MODEM OUTPUT	08 - W Delivered (Prior Month)	Test Duration	In min. >		In hrs >	
Scheme 3P4WY	09 - Watt / Date Last Reset	Multiplier				14,000
PTR 350:1V	11 - KW Delivered (Prior Mon.)	FORMULA: KWh = Kilowatt x Test Duration (hrs)				
CTR 200:5A	12 - KWHR Received (Prior Mo.)	Unregistered Energy		KWh		
	13 - KVARH Q3 Rec. (Prior Mon.)			Kvarh		
	14 - KW Received (Prior Month)					
	15 - Display Check					

METERING EQUIPMENT DATA

PARTICULAR	SEAL NUMBER	REGISTER MULTIPLIER	METER NORMAL DISPLAY	AS FOUND	As Reset	AS LEFT
		OLD NEW	Kwh Del - 02	1.073		1.073
Kwhr/Kvarh	51146	14,000	Kvarh Q1 - Del.03	0.00		0.00
Reset lever	51334		KW Del. - 04	11.134W		11.134W
Test Block			Kwhr Rec. - 05	206.009		206.009
Meter Box	none		Kvarh Q3 Del - 06	27.415		27.415
			KW Rec. - 07	246.009W		246.009W

TEST PROPER (ON LINE TEST)

PARAMETERS		% Acc.	Test Rev		% Error				REMARKS	
METER	LOAD	Limit	Meter	Std	Test 1	Test 2	Test 3	Average		
1st Element	On-line	± 0.3%	50	50					TESTED AT MEMDR - NLN LABORATORY	
2nd Element										
3rd Element										
CIRCUIT ADMITTANCE TEST					Phase A		Phase B		Phase C	

Remarks/Recommendations: Reference Standard : MTE Calport 200 SN 24554.

- INSTALLED AND WIRED GSM MODEM FOR REMOTE METER READING WITH SERIAL NO. 3720

- NO INTERRUPTION OF MAIN BILLING METER

TESTED BY: SR. TECHNICIAN

CHECKED BY: M.L. MATAJR
 PRINCIPAL ENGINEER B

REVIEWED BY: HARRY B. CONSOLACION
 PE A - MEMDR, NL-NORTH

In the Presence of / Copy Received By:

Plant/Area Representative

Customer's Representative



TransCo

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 NORTH LUZON - North
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BILLING METER TEST REPORT

CUSTOMER : NORTHWIND DEVELOPMENT CORPORATION
MET. POINT : LAOAG SUBSTATION
PROVINCE : ILOCOS NORTE

Date : JAN 19, 2006
Time Opened : 9:26AM
Time Closed : 9:42AM

SPECIFICATIONS			Unregistered Energy while Meter is Under Test				
Multifunction Meter	Code ID - Normal Display	PARAMETERS	Phase A	Phase B	Phase C	Total	
Make	EIG	01 - Meter Name	Phase Voltage Angle	0.00	119.53	240.13	
Type	NEXUS 1272	02 - KWH Delivered (Current Mo.)	Phase Voltage	113.27	115.28	115.75	
Ser No.	53105893	03 - Q1 KVARH Del. (Current Mo.)	Phase Current Angle	289.53	35.45	148.34	
CRTA	20/2.5A	04 - W Delivered (Current Month)	Phase Current	0.24	0.22	0.20	
Kh	0.24	05 - KWH Received (Current Mo.)	Instantaneous KW	8.05W	Kilowatt		113.120
Test Kh	1.8	06 - Q3 KVARH Rec. (Current Mo.)	Instantaneous Kvar	-74.79VAR	Kilovar (lag)		-1047.08
V Rating	115-480V	07 - W Received (Current Month)	Test Duration	In min. > 15	In hrs > 0.267		
Options	MODEM OUTPUT	08 - KWH Delivered (Prior Month)	Multiplier				14,000
Scheme	3P4WY	09 - Q1 Delivered (Prior Month)	FORMULA: KWh = Kilowatt x Test Duration (hrs)				
PTR	380:1V	10 - W Delivered (Prior Mon.)	Unregistered Energy		KWh		30
CTR	200:5A	11 - KWH Received (Prior Mo.)			Kvarh		-280
		12 - KVARH Q3 Rec. (Prior Mon.)					
		13 - W Received (Prior Month)					
		14 - Display Check					

METERING EQUIPMENT DATA

PARTICULAR	SEAL NUMBER		REGISTER MULTIPLIER		METER NORMAL DISPLAY	AS FOUND	As Reset	AS LEFT
	As Fnd.	As LR.	OLD	NEW				
Kwhr/Kvarh	51148	SAME	14,000		Kwh Del - 02	2.012		2.012
Reset lever	51371	SAME			Kvarh Q1 - Del.03	0.000		0.000
Test Block	51334	51131			KW Del. - 04	12.645		12.645
Meter Box	none				Kwhr Rec. - 05	211.702		211.702
					Kvarh Q3 Del - 06	28.017(Q2)		14.974(Q3)
					KW Rec. - 07	-696.009W		-696.009

TEST PROPER (ON LINE TEST)

PARAMETERS		% Acc.	Test Rev		% Error				REMARKS	
METER	LOAD	Limit	Meter	Std	Test 1	Test 2	Test 3	Average		
1st Element	On-line	± 0.3%	50	50					ACCURACY WITHIN LIMIT	
2nd Element					0.103	0.0205	0.105	0.137		
3rd Element										
CIRCUIT ADMITTANCE TEST					Phase A		Phase B		Phase C	

Remarks/Recommendations: Reference Standard : MTE Calport 200 SN 24884.

RECONFIGURED PARAMETERS OF LOAD PROFILE CHANNEL ASSIGNMENT
 TO STANDARD PROGRAMMED FOR INTERCHANGE BILLING METER.

TESTED BY: E. O. RAMOS
 SR. TECHNICIAN

CHECKED BY: M. L. MATA JR.
 PRINCIPAL ENGINEER B

REVIEWED BY: HARRY B. CONSOLACION
 PE A - MEMDR, NL-NORTH

In the Presence of / Copy Received By:

SALVADOR
 Plant/Area Representative

Emerita D. Echavez
 Customer's Representative
 NWPDC



NATIONAL TRANSCO
METERING SERVICES GROUP
 METER EQUIPMENT MAINTENANCE & DATA RETRIEVAL
 NORTH LUZON - North
 Pennsylvania Ave., Poro Pl., San Fernando City (L.U.)

To: Mr. Niels Jacobsen
 Mr. Marko Centeno

For your info.

BILLING METER TEST REPORT

ANNEX 2 Emeric Echavez
 Page 8 of 12

COSTUMER : NORTHWIND DEVT. CORPORATION
MET. POINT : LAOAG SUBSTATION
PROVINCE : ILOCOS NORTE
SEIL : MF3MLAONPDC01

Date : MARCH 23, 06
Time Opened : 8:40 AM
Time Closed : 10:45 AM

SPECIFICATIONS				Unregistered Energy while Meter is Under Test			
Multifunction Meter	Code ID - Normal Display	PARAMETERS	Phase A	Phase B	Phase C	Total	
Make EIG	01 - Meter Name	Phase Voltage Angle					
Type NEXUS 1272	02 - KWH Delivered (Current Mo.)	Phase Voltage					
Ser No. 411 - 94876	03 - Q1 KVARH Del. (Current Mo.)	Phase Current Angle					
CIITA 20/2.5A	04 - Watt Delivered (Current Mo.)	Phase Current					
Kh 0.36	05 - KWH Received (Current Mo.)	Instantaneous KW		Kilowatt			
Test Kh 1.8	06 - Q3 KVARH Rec. (Current Mo.)	Instantaneous Kvar		Kilovar (lag)			
V Rating 115-480V	07 - Watt Received (Current Mo.)	Test Duration	In min. >		In hrs >		
Options MODEM OUTPUT	08 - Watt / Date Last Reset	Multiplier				14,000	
Theme 3P4WY	09 - KWH Delivered (Prior Mo.)	FORMULA: KWh = Kilowatt x Test Duration (hrs)					
PTR 40250:115V	10 - Q1 KVARH Del. (Prior Mon.)	Unregistered Energy		KWh			
CTR 200:5A	11 - Watt Delivered (Prior Mo.)			Kvarh			
	12 - KWHR Received (Prior Mo.)						
	13 - KVARH Q3 Rec. (Prior Mon.)						
	14 - Watt Received (Prior Month)						
	15 - Display Check						

METERING EQUIPMENT DATA

PARTICULAR	SEAL NUMBER	REGISTER MULTIPLIER	METER NORMAL DISPLAY	AS FOUND	As Reset	AS LEFT
		OLD NEW	Kwh Del - 02	5.282		00.00
Kwhr/Kvarh	1146 7123	14,000	Kvarh Q1 - Del.03	0.00		00.00
Reset lever	1147 7124		Watt Del. - 04	21.451		0.112 (0.00)
Test Block	5131 7125		Kwhr Rec. - 05	101.246		00.00
Meter Box	NONE		Kvarh Q3 Rec. - 06	1.149		00.00
			Watt Rec. - 07	1706.154		0.109 (0.00)

TEST PROPER OF NEW NEXUS BILLING METER

PARAMETERS		% Acc.	Test Rev		% Error				REMARKS	
METER	LOAD	Limit	Meter	Std	Test 1	Test 2	Test 3	Average		
1st Element	On-line	± 0.5%	50	50	- 0.004	- 0.012	- 0.009	- 0.008		
2nd Element										
3rd Element										
CIRCUIT ADMITTANCE TEST					Phase A	---	Phase B	---	Phase C	---

Remarks/Recommendations: Reference Standard: MTE Calport 200 SN 24884.

- REPLACED EXISTING NEXUS BILLING METER AND GSM MODEM DUE TO COMMUNICATION ERROR.

TESTED BY: E. O. RAMOS
 SR. TECHNICIAN

In the Presence of / Copy Received By:

CHECKED BY: M. L. MATA JR.
 PRINCIPAL ENGINEER B

Plant/Area Representative

REVIEWED BY: HARRY B. CONSOLACION
 PE A - MEMDR. NL-NORTH

Emeric Echavez
 Customer's Representative

31/01/2007 11:56 09195470710

NORTHWIND

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NATIONAL TRANSMISSION CORPORATION
METERING SERVICES GROUP
METER EQUIPMENT MAINTENANCE & DATA RETRIEVAL
NORTH LUZON - North
Pennsylvania Ave., Poro Pt., San Fernando City (L.U.)

BILLING METER TEST REPORT

CUSTOMER : NORTHWIND DEVT CORP
MET. POINT : BANGUI (MAIN METER)
PROVINCE : ILOCOS NORTE
SEIL : MF3MLAONPDC01
Purpose of Test : Routine Maintenance

Date : June 6, 2006
Time Opened : 1:06 PM
Time Closed : 4:00 PM

Special Request : \ x \

SPECIFICATIONS			Unregistered Energy while Meter is Under Test				
Multifunction Meter	Code ID - Normal Display		PARAMETERS	Phase A	Phase B	Phase C	Total
Make	EIG	01 - METER NAME	Phase Voltage Angle	0.00	119.83	240.28	
Type	NEXUS 1272	02 - KWH DEL (CUR MO)	Phase Voltage	111.94	113.27	112.85	
Ser No.	411-94876	03 - Q1 KVARH DEL (CUR MO)	Phase Current Angle	160.13	279.03	40.72	
CNTA	20 / 2.5	04 - MAX W DEL (CUR MO)	Phase Current	3.83	3.93	3.98	
Kh	1.8	05 - KWH REC (CUR MO)	Instantaneous KW	-1.197	Kilowatt		-16.758
Test Kh	0.36	06 - Q3 KVARH REC (CUR MO)	Instantaneous Kvar	0.422	Kilovar (lag)		5.908
V Rating	120-480V	07 - MAX W REC (CUR MO)	Test Duration	174 min	In hrs >	2.900	
Options	Recorder	08 - WATT/DATE LAST RESET	Multiplier				14,000
Scheme	3P4W Y	09 - KWH DEL (PRIOR MO)	FORMULA: KWh = Kilowatt x Test Duration (hrs)				
PTR	40250:115 V	10 - Q1 KVARH DEL (PRIOR MO)	Unregistered Energy		KWh		-48,598
CTR	200:5 A	11 - MAX W DEL (PRIOR MO)			Kvarh		17,133
		12 - KWH REC (PRIOR MO)					
		13 - Q3 KVARH REC (PRIOR MO)					
		14 - MAX W REC (PRIOR MO)					
		15 - DISPLAY CHECK					

METERING EQUIPMENT DATA

PARTICULAR	SEAL NUMBER		REGISTER MULTIPLIER		METER NORMAL DISPLAY	AS FOUND 411-94876	As Reset	AS LEFT
	As Fnd	As Lft	OLD	NEW	KWH DEL (02)	11.366		0.000
Kwhr/Kvarh	52133	51773	14,000		KVARH DEL (03)	0.001		0.000
Reset lever	52448	52448			W DEL (04)	21.057		0.000
Test Block	51931	51931			KWH REC (05)	409.134		0.000
Meter Box	NONE				KVARH REC (06)	12.967		0.000
					W REC (07)	-1290.564		0.000
					RESET DATE (08)	5/26/2006		8/6/2006

TEST PROPER (ON LINE TEST)

PARAMETERS		% Acc.	Test Rev		% Error				REMARKS		
METER	LOAD	Limit	Meter	Std	Test 1	Test 2	Test 3	Average			
1st Element	On-line	+0.3%									
2nd Element											
3rd Element											
CIRCUIT ADMITTANCE TEST					Phase A		Phase B		Phase C		

Remarks/Recommendations:

RESET BILLING METER LOGS

TESTED BY:

AR/BARNUM
TECHNICIAN

CHECKED BY:

NA TABILI
SR ENGR

REVIEWED BY:

HARRY B. CONSOLACION
PE A - MEMDR, NL-NORTH

In the Presence of / Copy Received By:

Plant Area Representative

Customer's Representative



NATIONAL TRANSMISSION CORPORATION
METERING SERVICES GROUP
METER EQUIPMENT MAINTENANCE & DATA RETRIEVAL
 NORTH LUZON - North
 Pennsylvania Ave., Poro Pl., San Fernando City (L.U.)

ANNEX 2

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BILLING METER TEST REPORT

CUSTOMER: NORTHWIND DEVT CORP
 MET. POINT: BANGUI (MAIN METER)
 PROVINCE: ILOCOS NORTE
 SEIL: MF3MLAONPDC01
 Purpose of Test: Routine Maintenance

Date: SEPT. 6, 2006
 Time Started: 9:33 am
 Time Finished: 9:38 am
 Special Request: 1 x 1

SPECIFICATIONS			Unregistered Energy while Meter is Under Test				
Multifunction Meter	Code ID - Normal Display	PARAMETERS	Phase A	Phase B	Phase C	Total	
Make: EIG	01 - METER NAME	Phase Voltage Angle	0.00	114.47	26.15		
Type: NEXUS 1272	02 - KWH DEL (CUR MO)	Phase Voltage	113.71	115.34	115.10		
Ser No: 411-94876	03 - Q1 KVARH DEL (CUR MO)	Phase Current Angle	23.67	131.90	267.43		
CTIA: 20 / 2.5	04 - MAX W DEL (CUR MO)	Phase Current	48	35	21		
Kh: 1.8	05 - KWH REC (CUR MO)	Instantaneous KW	134	Kilowatt		1876	
Test Kh: 0.36	06 - Q3 KVARH REC (CUR MO)	Instantaneous Kvar	035	Kilovar (lag)		490	
V Rating: 120-480V	07 - MAX W REC (CUR MO)	Test Duration		min 5	In hrs >	0.03	
Options: Recorder	08 - WATT/DATE LAST RESET	Multiplier				14,000	
Scheme: 3P4W Y	09 - KWH DEL (PRIOR MO)	FORMULA: KWh = Kilowatt x Test Duration (hrs)					
PTR: 40250.115 V	10 - Q1 KVARH DEL (PRIOR MO)	Unregistered Energy		KWh		156	
CTR: 200.5 A	11 - MAX W DEL (PRIOR MO)			Kvarh		41	
	12 - KWH REC (PRIOR MO)						
	13 - Q3 KVARH REC (PRIOR MO)						
	14 - MAX W REC (PRIOR MO)						
	15 - DISPLAY CHECK						

METERING EQUIPMENT DATA

PARTICULAR	SEAL NUMBER		REGISTER MULTIPLIER		METER NORMAL DISPLAY	AS FOUND	As Reset	AS LEFT (After reset)
	As Fnd	As Lft	OLD	NEW				
Kwhr/Kvarh	786	786			KWH DEL (02)	274.864		274.864
Reset lever	15448	15448			KVARH DEL (03)	9.310		9.310
Test Block	693	693			KW DEL (04)	1169.107		1169.100
Meter Box	NONE				KWH REC (05)	231.419		231.419
					KVARH REC (06)	7.346		7.346
					KW REC (07)	20.896		20.896
					RESET DATE (08)	8/25/06		8/25/06

TEST PROPER (ON LINE TEST)

PARAMETERS		% Acc.	Test Rev		% Error				REMARKS	
METER	LOAD	Limit	Meter	Std	Test 1	Test 2	Test 3	Average		
1st Element	On-line	+0.3%	-	-	-	-	-	-	N/A	
2nd Element										
3rd Element										
CIRCUIT ADMITTANCE TEST					Phase A		Phase B		Phase C	

Remarks/Recommendations: Reset billing meter logs.

TESTED BY:

CHECKED BY:

REVIEWED BY:

HARRY B. CONSOLACION

In the Presence of / Copy Received By:

Emerita V. Echavez
 Plant Representative
 NWPDC
 HD BARTOLME



NATIONAL TRANSMISSION CORPORATION
METERING SERVICES GROUP
 METER EQUIPMENT MAINTENANCE & DATA RETRIEVAL
 NORTH LUZON - North
 Pennsylvania Ave., Poro Pt., San Fernando City (L.U.)

Mr. Niels Jacobson
 Mr. Morish Contino
 Mr. Van Mampibre

BILLING METER TEST REPORT

ANNEX 2
 Page 11 of 12

CUSTOMER : NORTHWIND DEVT CORP
 MET. POINT : BANGUI (MAIN METER)
 PROVINCE : ILOCOS NORTE
 SEIL : MF3MLAONPDC01
 Purpose of Test : Routine Maintenance

Date : November 22, 2006
 Time Started : 9:16am
 Time Finished : 10:49am
 Special Request : x x

SPECIFICATIONS			Unregistered Energy while Meter is Under Test					
Multifunction Meter		Code ID - Normal Display	PARAMETERS	Phase A	Phase B	Phase C	Total	
Make	EIG	01 - METER NAME	Phase Voltage Angle	0.00	119.76	239.90		
Type	NEXUS 1272	02 - KWH DEL (CUR MO)	Phase Voltage	115.95	117.57	117.43		
Ser No.	411-94876	03 - Q1 KVARH DEL (CUR MO)	Phase Current Angle	96.70	216.03	341.86		
CNTA	20 / 2.5	04 - MAX W DEL (CUR MO)	Phase Current	0.24	0.25	0.24		
Kh	1.8	05 - KWH REC (CUR MO)	Instantaneous KW	-0.013	Kilowatt	-182		
Test Kh	0.36	06 - Q3 KVARH REC (CUR MO)	Instantaneous Kvar	0.082	Kilovar (lag)	1,148		
V Rating	120-480V	07 - MAX W REC (CUR MO)	Test Duration		min 93	In hrs >	1,550	
Options	Recorder	08 - WATT/DATE LAST RESET	Multiplier				14,000	
Scheme	3P4W Y	09 - KWH DEL (PRIOR MO)	FORMULA: KWh = Kilowatt x Test Duration (hrs)					
PTR :	40250:115 V	10 - Q1 KVARH DEL (PRIOR MO)	Unregistered Energy		KWh	-282		
		11 - MAX W DEL (PRIOR MO)			Kvarh	1,779		
CTR	200:5 A	12 - KWH REC (PRIOR MO)						
		13 - Q3 KVARH REC (PRIOR MO)						
		14 - MAX W REC (PRIOR MO)						
		15 - DISPLAY CHECK						

METERING EQUIPMENT DATA

PARTICULAR	SEAL NUMBER		REGISTER MULTIPLIER		METER NORMAL DISPLAY	AS FOUND	As Reset	AS LEFT
	As Fnd	As Lft	OLD	NEW				
Kwhr/Kvarh	786	786	14,000		KWH DEL (02)	1,217.089		1,217.089
Reset lever	311	311			KVARH DEL (03)	17.378		17.378
Test Block	693	53624			W DEL (04)	1,711.649		1,711.649
Meter Box	NONE				KWH REC (05)	237.304		237.304
					KVARH REC (06)	7.346		7.346
					W REC (07)	-21.562		-21.562
					RESET DATE (08)	10/26/06		10/26/06

TEST PROPER (ON LINE TEST)

PARAMETERS		% Acc.	Test Rev		% Error				REMARKS	
METER	LOAD	Limit	Meter	Std	Test 1	Test 2	Test 3	Average		
1st Element	On-line	+0.3%	-	-	-	-	-	-	Refer to ERC calibration test report.	
2nd Element										
3rd Element										
CIRCUIT ADMITTANCE TEST					Phase A		Phase B		Phase C	

Remarks/Recommendations: Incurred unregistered energy during ERC calibration test.

TESTED BY: EOR / PES
 CHECKED BY: EOR

REVIEWED BY: HARRY B. CONSOLACION
PE A - MEMDR, NL-NORTH

In the Presence of / Copy Received By:

EMERITO D. FERRER
 Plant Representative
MEMDR
ER SABADO LGS
 TRANSCO Representative

ANNEX 2

Page 11A of 12

REPUBLIC OF THE PHILIPPINES
OFFICE OF THE PRESIDENT
ENERGY REGULATORY COMMISSION
PASIG CITY

No 761390 LA

REPORT OF ELECTRIC WATTHOUR METER TESTS

Operator/Owner: TRANSO / NORTHWIND DEV. CORP. Date: Nov 22 2006
Address: LAOAG CITY, ILOCOS NORTE Nature of Test: SPOT TEST
Make: EIG Type: NEXUS 2.5 Volts: 115 Cycle: 60 Initial/General Wire: 4W
Reg. Ratio: 118 Gear Ratio: 118 Disc Kh: 118 Line Voltage: 110 220 440
Dial Constant: KIF Dial Test: OK Creeping: Creeping Rate:
METER NO.: 2004-41-14876 COMPANY NO.:

Meter Condition: New/Old
Cover Seal No.

AS FOUND

Reading:

Demand:

START: 9:16 AM

Energy: 1711.649

AMPERE LOAD	IDEAL TEST RATIO		ACTUAL TEST RATIO		CORRECTION FACTOR	PERCENT ACCURACY	PERCENT ERROR	AVERAGE ERROR
	METER	STANDARD	METER	STANDARD				
LL	1	0.120	0.12011	0.120		99.907	-0.092	
SERIES FL	10	1.20	1.2004	1.20		99.964	-0.035	
A LL	1	0.360	0.35996	0.360		100.000	0.000	
B FL	1	0.360	0.36000	0.360		99.982	-0.018	
C LL	1	0.360	0.36048	0.360		99.864	-0.136	
FL	1	0.360	0.36048	0.360		99.864	-0.136	

Remarks: SP/SPMD/SPED/2S/2SMD/2SED/3S/3SMD/3SED/EPP/PM/WMS/OTHERS

Meter Condition: New/Old
ERC Seal/Presser No.:

AS LEFT

Reading:

Demand:

EN 4405 (ERC)

STOP: 10:49 AM

Energy:

AMPERE LOAD	IDEAL TEST RATIO		ACTUAL TEST RATIO		CORRECTION FACTOR	PERCENT ACCURACY	PERCENT ERROR	AVERAGE ERROR
	METER	STANDARD	METER	STANDARD				
LL	1	0.600	0.60016	0.600		99.972	-0.028	
SERIES FL	1	0.600	0.60016	0.600		99.972	-0.028	
LL								
FL								
LL								
FL								
LL								
FL								

DATA ON STANDARD INSTRUMENT USED DURING THE ABOVE TESTS

Watthour Meter Standard Make and No. RD-20-112, SN 204507 Voltage: 120/240/480
Light Load Rating Used: 2.5 Amps. Heavy Load Rating Used: 2.5 Amps.
Remarks: Tested Sealed Loading Device: PHANTOM LOAD

TESTED IN THE PRESENCE OF:

CHECKED BY:

NORTHWIND DEV. CORP. REP.

TESTED BY:

R. ABESAMIS / G. DE ESMO



NATIONAL TRANSMISSION CORPORATION
METERING SERVICES GROUP
 METER EQUIPMENT MAINTENANCE & DATA RETRIEVAL
 NORTH LUZON - North
 Pennsylvania Ave., Poro Pt., San Fernando City (L.U.)

ANNEX 2

Page 12 of 12

BILLING METER TEST REPORT

CUSTOMER : NORTHWIND DEVT CORP
MET. POINT : BANGUI (BACKUP METER)
PROVINCE : ILOCOS NORTE
Purpose of Test : Routine Maintenance

Date : November 22, 2006
Time Started : 9:16am
Time Finished : 10:49am
Special Request : 1 x 1

SPECIFICATIONS			Unregistered Energy while Meter is Under Test				
Multifunction Meter		Code ID - Normal Display	PARAMETERS		Phase A	Phase B	Phase C
Make	Schlumberger	SEGMENT TEST	Phase Voltage Angle		0.00	120.08	240.72
Type	Q1000	CUSTOMER NAME	Phase Voltage		114.74	116.51	116.22
Ser No.	19663417	CURRENT DATE	Phase Current Angle		97.44	216.67	343.11
CNTA	10/2.5 AMP	CURRENT TIME	Phase Current		0.23	0.25	0.24
Kh	1.8	KWHR DELIVERED	Instantaneous KW		Kilowatt		
Test Kh	1.8	KVARH DELIVERED	Instantaneous KVAR		Kilovar (lag)		
V Rating	100V - 120 V	KWHR RECEIVED	Power Factor				
Options	RECORDER	KVARH RECEIVED					
SCHEM E	4WY	CONT. CUM. DELIVERED	Test Duration	mins>	hrs>		
		CUM. DELIVERED	Multiplier		14000		
		CONT. CUM. RECEIVED	FORMULA: Unregistered KWh=Kilowatt x Test Duration(hrs)				
		CUM. KW RECEIVED					
PTR	40250:115 V	DEMAND RESET COUNT	Unregistered Energy(To be added to Power Bill)		KWh	refer to main meter	
CTR	200:5 A	FREQUENCY			KVarH	test report	

METERING EQUIPMENT DATA

PARTICULAR	SEAL NUMBER	REGISTER MULTIPLIER		METER READING (NORMAL DISPLAY)					
		OLD	NEW		TOTAL		DEMAND		RESET
					KWHR	KVARH	CCUM KW	CUM. KW	
Kwhr/Kvarh	679 / 679	14,000		As Found Del.	1240.175	664.288	-	7.648	
Reset lever	377 / 377			As Found Rec.	2438.640	638.085	-	16.198	
Test Block	693 / 53624			As Left Del.	1240.175	664.288	-	7.648	FREQ.
Meter Box	NONE			As Left Rec.	2438.640	638.085	-	16.198	

TEST PROPER

PARAMETERS			% Acc.	Test Ratio		Actual		%	%	REMARKS
METER	P.F.	LOAD	Limit	Meter	Std	Meter	Standard	Acc	Error	
A	1	FL	+ 0.3%							
B	1	FL								
C	1	FL								refer to ERC calibration
Series	1	FL				20				test report
Series	0.5	FL				20				
Series	1	LL				1				
CIRCUIT ADMITTANCE TEST						PHASE A	n/a	PHASE B -	n/a	PHASE C - n/a

Remarks/Recommendations: Refer to main meter test report as to the unregistered energy incurred

TESTED BY: EOR / PES
CHECKED BY:
 EOR
REVIEWED BY:

HARRY B. CONSOLACION
 PE A - MEMDR, NL-NORTH

In the Presence of / Copy Received By:

Emerita J. Echavez
 Plant Representative

FA SABAN
 TRANSCO Representative

REPUBLIC OF THE PHILIPPINES
OFFICE OF THE PRESIDENT
ENERGY REGULATORY COMMISSION
PASIG CITY

Nº 761391 LA

REPORT OF ELECTRIC WATTHOUR METER TESTS

Operator/Owner: TRANSCO / NORTHWIND DEV. CORP. Date: NOV 22 200 6
Address: LAOAG CITY, ILOCOS NORTE Prem: SPOT TEST
Make: QUANTUM Type: SP4A Amps.: 2.5 Volts: 100-240 Nature of Test: Initial/General
Reg. Ratio: _____ Gear Ratio: _____ Disc Kh: _____ Line Voltage: 110 220 440 Wire: 4
Dial Constant: _____ Dial Test: _____ Creeping: _____ Creeping Rate: _____
S. AL NO.: 19 665 417 COMPANY NO.: _____

Meter Condition: New/Old AS FOUND Reading: Demand: _____
Cover Seal No.: CN 2811 (ERC) START: 9:16 AM Energy: 1240.175

AMPERE LOAD	IDEAL TEST RATIO		ACTUAL TEST RATIO		CORRECTION FACTOR	PERCENT ACCURACY	PERCENT ERROR	AVERAGE ERROR
	METER	STANDARD	METER	STANDARD				
PF								
LL			1-803	1-8029		100.004	0.004	
FL			1-796	1-79823		99.988	-0.012	
A			1-8013	1-803		99.91	-0.09	
B			1-7961	1-7970		99.95	-0.05	
C			1-796	1-799		99.833	-0.167	

Remarks: SP/SPMD/SPED/2S/2SMD/2SED/3S/3SMD/3SED (EPP) PM/WMS/OTHERS

Meter Condition: New/Old AS LEFT Reading: Demand: _____
ERC Seal/Presser No.: CN 4481 (ERC) STOP: 10:49 AM Energy: _____

AMPERE LOAD	IDEAL TEST RATIO		ACTUAL TEST RATIO		CORRECTION FACTOR	PERCENT ACCURACY	PERCENT ERROR	AVERAGE ERROR
	METER	STANDARD	METER	STANDARD				
PF								
LL								
FL			8-986	8-9985		99.86	-0.14	
LL								
FL								
LL								
FL								

DATA ON STANDARD INSTRUMENT USED DURING THE ABOVE TESTS

Watthour Meter Standard Make and No. RD-20 HZ, SN 20N07 Voltage: 120/240/480
Light Load Rating Used: _____ Amps: _____ Heavy Load Rating Used: 2.5 Amps: _____
Remarks: Tested ☒ Sealed ☐ Amps: _____ Loading Device: PHANTOM LOAD

TESTED IN THE PRESENCE OF:

CHECKED BY:

NORTHWIND DEV. CORP. REP.

TESTED BY:

R. ARSAMS