

Republic of the Philippines  
**ENERGY REGULATORY COMMISSION**  
San Miguel Avenue, Pasig City



IN THE MATTER OF THE APPLICATION FOR AUTHORITY TO IMPLEMENT THE FOLLOWING ELECTRIC CAPITAL PROJECTS: (1) REPLACEMENT OF POWER TRANSFORMER BANK NO. 1 AT STA. MESA SUBSTATION; (2) REPLACEMENT OF POWER TRANSFORMER BANK NO. 5 AT BALINTAWAK SUBSTATION; (3) UPRATING OF POWER TRANSFORMER BANK NO. 1 AT STA. ROSA SUBSTATION; (4) EXPANSION OF THE FIRST PHILIPPINE INDUSTRIAL PARK (FPIP) 115 KV - 34.5 KV SUBSTATION; AND (5) CONSTRUCTION OF LAGUNA INTERNATIONAL INDUSTRIAL PARK-ROHM ELECTRONICS PHILIPPINES, INC. (LIIP-ROHM) 115 KV LINE, WITH PRAYER FOR PROVISIONAL AUTHORITY

ERC CASE NO. 2009-068 MC

MANILA ELECTRIC COMPANY  
(MERALCO),

Applicant.

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D O C K E T E D

Date: MAY 21 2010

By: [Signature]

**DECISION**

Before this Commission for resolution is the application filed on August 10, 2009 by the Manila Electric Company (MERALCO) for authority to implement the following capital expenditure projects: 1) The replacement of Power Transformer Bank No. 1 at Sta. Mesa Substation; 2) The replacement of Power Transformer Bank No. 5 at Balintawak Substation; 3) The uprating of Power Transformer Bank No. 1 at Sta. Rosa Substation; 4) The expansion of First Philippine Industrial Park (FPIP) 115 kV - 34.5 kV Substation; and 5) The construction of

Laguna International Industrial Park-ROHM Electronic, Philippines, Inc. (LIIP-ROHM) 115 kV line, with prayer for provisional authority.

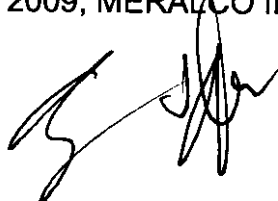
Having found said application sufficient in form and in substance with the required fees having been paid, an Order and a Notice of Public Hearing, both dated October 26, 2009, were issued setting the case for initial hearing on December 3, 2009.

In the same Order, MERALCO was directed to cause the publication of the Notice of Public Hearing, at its own expense, once (1x) in a newspaper of general circulation in the Philippines, not later than ten (10) days before the scheduled date of initial hearing. It was also directed to inform the consumers, within its franchise area, by any other means available and appropriate, of the filing of the instant application, its reasons therefor and of the scheduled hearing thereon.

The Office of the Solicitor General (OSG), the Commission on Audit (COA) and the Committees on Energy of both Houses of Congress were furnished with copies of the Order and the Notice of Public Hearing and were requested to have their respective duly authorized representatives present at the initial hearing.

Likewise, the Offices of the Mayors of the Cities and Municipalities within MERALCO's franchise area were furnished with copies of the Order and Notice of Public Hearing for the appropriate posting thereof on their respective bulletin boards.

On November 27, 2009, MERALCO filed its "Pre-Trial Brief".



During the December 3, 2010 initial hearing of this case, only MERALCO appeared. No intervenor/oppositor appeared nor was there any intervention/opposition registered.

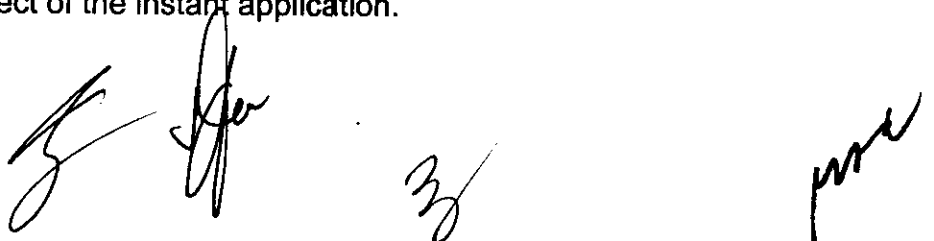
At the said hearing, MERALCO presented its proofs of compliance with the Commission's posting and publication of notice requirements which were duly marked as Exhibits "A" to "Q-1", inclusive. Thereafter, it conducted an expository presentation.

At the termination of the expository presentation, MERALCO presented its lone witness, Engr. Gerardo V. Lozada, its Team Leader of Network System Development Team of the Network Asset Planning Office, who testified, among others, in support of the application, the necessity of the projects and the fact that MERALCO is technically and financially capable to implement the projects.

In the course of his direct examination, additional documents were presented and duly marked as exhibits. The direct examination having been terminated, the Commission propounded clarificatory questions on the said witness.

On December 9, 2009, MERALCO filed its "*Formal Offer of Evidence*", which is hereby admitted for being relevant and material to the final resolution of the case.

On February 3 to 4, 2010, the Commission conducted an ocular inspection on MERALCO's assets subject of the instant application.

The bottom of the page contains several handwritten signatures and initials. From left to right, there is a signature that appears to be 'J. Lozada', followed by another signature, then the initials '33', and finally a signature that looks like 'mrc'.

## DISCUSSION

MERALCO sought the Commission's approval of the following projects:

### 1. Replacement of Transformer Bank No. 1 at Sta. Mesa Substation

a. Project Description:

- Procurement and Installation of an 83 MVA, 110 kV-34.5 kV power transformer with an On-Load-Tap-Changer (OLTC) to replace the defective Transformer Bank No. 1 at Sta. Mesa substation

b. Rationale of the Project:

- To prevent widespread power interruption in the areas covered by the Sta. Mesa substation

c. Project Cost: **PhP73,290,000.00**

### 2. Replacement of Transformer Bank No. 5 at Balintawak Substation

a. Project Description:

- Procurement and Installation of an 83 MVA, 110 kV-34.5 kV power transformer with an On-Load-Tap-Changer (OLTC) to replace the defective Transformer Bank No. 1 at Balintawak substation

b. Rationale of the Project:

- To prevent widespread power interruption in the areas covered by the Balintawak substation

c. Project Cost: **PhP69,080,000.00**



### 3. Upgrading of Power Transformer Bank at Sta. Rosa Substation

a. Project Description:

- Procurement and installation of one (1) 83 MVA, 110 kV-34.5 kV three (3) phase power transformer with OLTC to uprate the 50 MVA Sta. Rosa Transformer Bank

b. Rationale of the Project:

- To prevent widespread power interruption within the Laguna Technopark Inc., educational institutions, and residential and commercial customers in Laguna

c. Project Cost:

**PhP78,540,000.00**

### 4. Expansion of First Philippine Industrial Park (FPIP) 115 kV-34.5 kV Substation

a. Project Description:

- Procurement and installation of one (1) 83 MVA, 110 kV-34.5 kV three (3) phase power transformer with OLTC including two (2) units of outdoor-type Circuit Breaker (CB) and associated disconnect switches, switchgear and capacitor bank to expand the First Philippine Industrial Park's (FPIP) 115 kV-34.5 kV substation

b. Rationale of the Project:

- To accommodate the increase in load within the industrial park and applications from commercial and residential customers in Sto. Tomas, Batangas and Calamba, Laguna

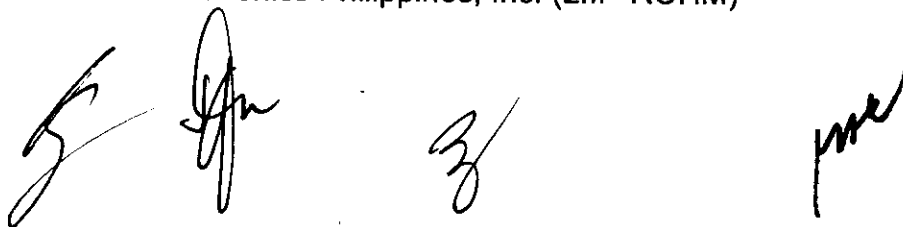
c. Project Cost:

**PhP145,900,000.00**

### 5. Construction of Laguna International Industrial Park-Rohm Electronics Philippines, Inc. (LIIP-ROHM) 115 kV Line

a. Project Description:

- Construction of a 115 kV line within the Laguna International Industrial Park-Rohm Electronics Philippines, Inc. (LIIP-ROHM)



b. Rationale of the Project:

- To improve reliability required by a power sensitive electronics company

c. Project Cost:

PhP98,820,000.00

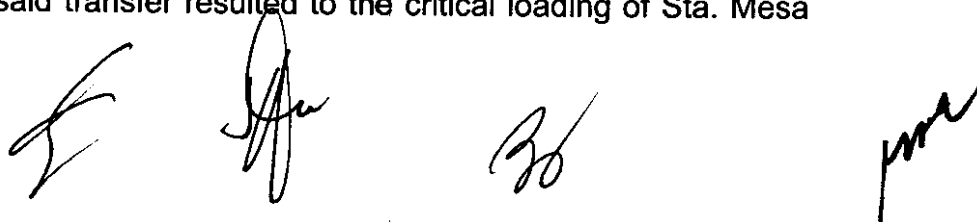
The total project cost is as follows:

DESCRIPTION	PROJECT COST (PhP)
Procurement and Installation of 83 MVA, 110 kV-34.5 kV Power Transformer (Sta. Mesa Substation)	73,290,000.00
Procurement and Installation of 83 MVA, 110 kV-34.5 kV Power Transformer (Balintawak Substation)	69,080,000.00
Procurement and Installation of One (1) 83 MVA, 110 kV-34.5 kV Three (3) Phase Power Transformer with OLTC (Sta. Rosa transformer bank)	78,540,000.00
Procurement and Installation of One (1) 83 MVA, 110 kV-34.5 kV Three (3) Phase Power Transformer with OLTC (FPIP substation)	145,900,000.00
Construction of a 115 kV Line Feeder Augmentation Project (LIIP-ROHM)	98,820,000.00
<b>TOTAL</b>	<b>465,630,000.00</b>

## TECHNICAL ANALYSIS

### Replacement of Transformer Bank No. 1 at Sta. Mesa Substation

The test results of the power transformer at the Sta. Mesa Substation conducted on August 12, 2008 showed that it has a low insulation resistance between the secondary and tertiary windings. As a result, the loads were immediately transferred to other Sta. Mesa transformers and to adjacent substations. However, said transfer resulted to the critical loading of Sta. Mesa



83 MVA Transformer Nos. 5 and 7, Grace Park 83 MVA Transformer No. 1 and Balintawak Transformer No. 6.

The critical loading would result in prolonged and widespread power interruptions affecting thousands of customers in the areas of San Juan, Quezon City and portions of Manila and disruption of the operation of the Light Railway Transit (LRT). Moreover, the applications of prospective customers may not be accommodated resulting to economic losses and curtailed economic and commercial activities. Likewise, increased exposure of the affected 34.5 kV distribution lines due to emergency load shifting will result in higher line losses.

Shown below is a comparative analysis of the Year 2009 loading of the affected substations with and without the implemented project and the corresponding system losses:

Affected Substations	Without Project	With Project
Sta. Mesa 83MVA Transformer Bank No. 5	78.00%	77.00%
Sta. Mesa 83MVA Transformer Bank No. 7	97.00%	44.00%
Grace Park 83MVA Transformer Bank No. 1	82.00%	57.00%
Balintawak 83MVA Transformer Bank No. 6	73.00%	72.00%
Sta. Mesa 83MVA Transformer Bank No. 1	-	67.00%
System Losses (kWh)	12,849,873.00	10,925,606.00

#### **Replacement of Transformer Bank No. 5 at Balintawak Substation**

The test results of the Transformer Bank No. 5 conducted on November 15, 2006 showed that it failed in the turns ratio, winding resistance and insulation power factor test. Its loads were transferred to Balintawak Transformer Bank No. 4 and to adjacent substations. However, said transfer resulted to the critical loading of Balintawak 83 MVA Transformer No. 4, Grace Park 83 MVA Transformer No. 1 and Kaybiga 83 MVA Transformer No. 2.



The possibility of widespread power interruptions affecting thousands of customers in the areas of Caloocan City and Quezon City is inevitable due to the critical loading of the transformer. The applications of MERALCO's prospective customers may not be accommodated in view of the unreliability and insufficiency of power. The increased exposure of the affected 34.5 kV distribution lines due to emergency load shifting will result in higher line losses.

Shown below is a comparative analysis of the Year 2009 loading of the affected substations with and without the implemented project and the corresponding system losses:

Affected Assets/Equipment	Without Project	With Project
Balintawak 83MVA Transformer Bank No. 4	84.00%	73.00%
Grace Park 83MVA Transformer Bank No. 1	83.00%	52.00%
Kaybiga 83MVA Transformer Bank No. 2	82.00%	61.00%
Balintawak 83MVA Transformer Bank No. 5	-	65.00%
System Losses (kWh)	31,137,395.00	12,573,094.00

#### **Upgrading of Power Transformer Bank at Sta. Rosa Substation**

The upgrading of the Sta. Rosa Transformer Bank from 50 MVA to 83 MVA 110 kV-34.5 kV power transformer with On-Load-Tap-Changer (OLTC) is necessary to avert the imminent critical loading of the said transformer bank in view of the upsurge of large load applications. Due to rising fuel cost and the deteriorating reliability of the generating units, several self-generating companies unexpectedly chose to connect to MERALCO's distribution system. The sudden shift of the large load customers connecting to MERALCO's distribution grid occurred in the last quarter of 2008, thus the project could not have been added to the list of forecasted major electric capital projects to be included in the Performance Based Regulation (PBR) application filed by MERALCO on September 1, 2006.



The operation of the Sta. Rosa 50 MVA power transformer at a critical condition will overload the transformer and would result to widespread power interruptions in numerous industrial customers within the Laguna Technopark Inc., several educational institutions and thousands of residential and commercial customers in Laguna. Shown below is a comparative analysis of the loading at the Sta. Rosa Substation with and without the uprating project:

YEAR	Sta. Rosa 50MVA	83MVA (NEW)
2009	95.00%	57.00%
2010	99.00%	60.00%
2011	103.00%	62.00%

**Expansion of First Philippine Industrial Park (FPIP) 115 kV-34.5 kV Substation**

The expansion of the FPIP Substation is vital to accommodate the increasing number of load applications from the industrial park's locators and the commercial and residential customers in Sto. Tomas, Batangas and Calamba, Laguna.

Without the project, the existing single FPIP 83 MVA Power Transformer Bank No. 1 will be operating at a critical condition due to the unexpected increase of large load customers that opted to connect to MERALCO's distribution grid instead of operating their generator facilities. The continuous operation of an overloaded transformer would result to outages and prolonged power interruptions particularly to large industrial customers.

The load capacity augmentation project will provide the required capacity, improve system reliability, voltage regulation, power quality and reduce system losses. Shown below is a comparative analysis of the loading of the substations with and without the implemented project and the corresponding system losses:



Affected Substations	Without Project			With Project		
	2009	2010	2011	2009	2010	2011
FPIP 83MVA Transformer Bank No. 1	100%	105%	110%	34%	36%	38%
FPIP 83MVA Transformer Bank No. 2	-	-	-	66%	69%	73%
System Losses (kWh)	3,182,869.00			2,258,120.00		

**Construction of Laguna International Industrial Park-Rohm Electronics Philippines, Inc. (LIIP-ROHM) 115 kV Line**

The construction of the LIIP-ROHM 115 kV line will provide the power source to ROHM 115 kV Substation located inside the People's Technology Complex (PTC) and improve the degree of reliability required by power-sensitive electronic companies. The proposed project will address the deficiencies and ease the existing feeder capacity of the 34.5 kV lines serving Carmona and Gen. Mariano Alvarez, Cavite.

With the transfer of ROHM Electronics (a self-generating customer with an ultimate power requirement of 20 MW) to MERALCO's distribution system, the existing transformer and 34.5 kV feeder serving other locators at PTC will be loaded beyond its rated capacity. The existing Power Transformer Bank No. 1 at Gen. Mariano Alvarez Substation will be critically-loaded and the feeder, GMA 41XF, serving PTC will be overloaded. These deficiencies in substation and feeder capacities will result to prolonged and widespread power interruptions affecting thousands of customers in Carmona and Gen. Mariano Alvarez, Cavite. Similarly, the 115 kV grid application of LIIP-ROHM occurred in the first quarter of 2009 and thus, the proposed project was not added to the list of MERALCO's forecasted major electric capital projects that should have been included in its PBR application filed on September 1, 2006.





Shown below is a comparative analysis of the loading of the Gen. Mariano Alvarez Substation and corresponding feeder with and without the 115 kV line construction project:

Affected Assets	Without Project	With Project
	2009	2009
GMA Transformer Bank No. 1	90.00%	63.00%
GMA 41XF 34.5kV feeder	120.00%	50.00%
LIIP-ROHM 115kV Line	-	12.00%

### **COST ANALYSIS**

The proposed projects were not included in the MERALCO's list of forecasted major electric capital projects filed under the PBR. Thus, it deemed appropriate to file a separate application for the approval of these projects.

A perusal of the evidence presented herein showed that the completion and acquisition of the aforesaid projects will redound to the benefit of MERALCO's consumers in terms of continuous, reliable and efficient power supply as mandated by Republic Act No. 9136, or the Electric Power Industry Reform Act of 2001 (Section 2. Declaration of Policy – (b) *“to ensure the quality, reliability, security and affordability of the supply of electric power”*).

**WHEREFORE**, the foregoing premises considered, the application for authority to implement the following capital expenditure projects: 1) The replacement of Power Transformer Bank No. 1 at Sta. Mesa Substation; 2) The replacement of Power Transformer Bank No. 5 at Balintawak Substation; 3) upgrading of Power Transformer Bank No. 1 at Sta. Rosa Substation; 4) The expansion of First Philippine Industrial Park (FPIP) 115 kV – 34.5 kV Substation; and 5) The construction of Laguna International Industrial Park-ROHM Electronic, Philippines, Inc. (LIIP-ROHM) 115 kV line, with prayer for provisional



authority filed by Manila Electric Company (MERALCO) is hereby **APPROVED** subject to the following condition:

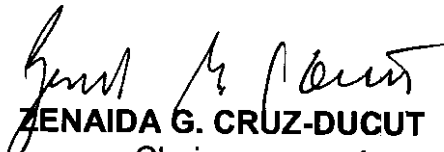
1. The proposed projects will be subject to further adjustment and optimization during the reset process for the third (3<sup>rd</sup>) Regulatory Period following the procedures stated in the Rules on Wheeling Distribution Rates (RWDR) and other relevant issuances of the Commission.

Relative thereto, MERALCO is hereby directed to pay a permit fee, within fifteen (15) days from receipt hereof, in the amount of **Three Million Four Hundred Ninety-Two Thousand Two Hundred Twenty-Five Pesos (PhP3,492,225.00)**, computed as follows:

$$\frac{\text{PhP}465,630,000.00}{\text{PhP}100.00} \times \text{PhP}0.75 = \text{PhP}3,492,225.00$$

**SO ORDERED.**

Pasig City, April 19, 2010.

  
**ZENAIDA G. CRUZ-DUCUT**  
Chairperson

  
**RAUF A. TAN**  
Commissioner

  
**ALEJANDRO Z. BARIN**  
Commissioner

  
**MARIA TERESA A. R. CASTAÑEDA**  
Commissioner

  
**JOSE C. REYES**  
Commissioner

**Copy Furnished:**

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Attention: Attys. Jose Ronald V. Valles, Rommel L. Yap, Francis  
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San Pascual, Batangas 4204
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102. **Office of the Municipal Mayor**  
Morong, Rizal 1960
103. **Office of the Municipal Mayor**  
Binangonan, Rizal 1940
104. **Office of the Municipal Mayor**  
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109. **Office of the Municipal Mayor**  
Malolos, Bulacan 3000

110. **Office of the Municipal Mayor**  
Calumpit, Bulacan 3003
111. **Office of the Municipal Mayor**  
Candaba, Pampanga 2013
112. **Office of the Municipal Mayor**  
Pulilan, Bulacan 3005
113. **Office of the Municipal Mayor**  
Apalit, Pampanga 2016
114. **Office of the Municipal Mayor**  
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