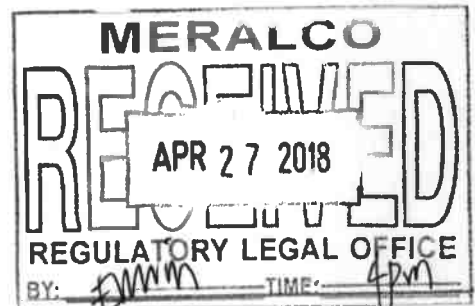


Republic of the Philippines  
**ENERGY REGULATORY COMMISSION**  
San Miguel Avenue, Pasig City

**IN THE MATTER OF THE  
APPLICATION FOR  
APPROVAL OF THE  
EMERGENCY  
REPLACEMENT OF ONE (1)  
83-MVA POWER  
TRANSFORMER AT  
URDANETA SUBSTATION**



**ERC CASE NO. 2018-006 RC**

**MANILA ELECTRIC  
COMPANY (MERALCO),  
Applicant.**

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**D O C K E T E D**  
Date: **APR 25 2018**  
By: \_\_\_\_\_

**ORDER**

On 29 January 2018, an *Application* dated 26 January 2018 was filed by applicant Manila Electric Company (MERALCO seeking the Commission's approval of its emergency replacement of one (1) 83-MVA power transformer at Urdaneta Substation.

MERALCO alleged the following in its *Application*:

1. Applicant is a private corporation duly organized and existing under the laws of the Republic of the Philippines, with principal office located at Lopez Building, Ortigas Avenue, Barangay Ugong, Pasig City. It may be served with notices and other processes of this Honorable Commission through its undersigned counsel at the address indicated herein.

2. Applicant has a legislative franchise to construct, operate and maintain an electric power distribution system for the conveyance of electric power to the end-users in the cities and municipalities of Metro Manila, Bulacan, Cavite and Rizal, and certain cities/municipalities/barangays in Batangas, Laguna, Quezon and Pampanga, pursuant to Republic Act No. 9209.

3. Applicant seeks the Honorable Commission's approval of its emergency installation of one (1) 83 MVA, 115 kV-34.5 kV, three (3)-phase power transformer with On-Load Tap Changer (OLTC) for the replacement of Applicant's Urdaneta Substation's defective Power Transformer Bank No. 3.

4. The Application is filed pursuant to the Honorable Commission's Resolution No. 26, Series of 2009, entitled:

*[Handwritten mark]*

*“Resolution Amending the Rules for Approval of Regulated Entities’ Capital Expenditure Projects”*. Emergency Capital Expenditure projects are those that require immediate implementation during an event that is not a force majeure or fortuitous event in order to maintain safe, reliable, secure and efficient operation of the power system.

5. However, for purposes of recovering the capital cost of the said emergency project through Applicant’s rates, the same will go through the process of evaluation by the Honorable Commission during the regulatory reset, unless there is basis for a rate-reopening in the current regulatory period, in accordance with the Rules for the Setting of Distribution Wheeling Rates (RDWR) for Distribution Utilities (DUs).

#### **BACKGROUND**

6. The Urdaneta Substation is located at EDSA cor. Recoletos Circle cor. Recoletos St., Brgy. Urdaneta Village, Makati City, Metro Manila. The said substation serves Makati City and portions of Taguig City. The Urdaneta Substation has three (3) 115kV-34.5kV power transformer banks.

7. On 05 August 2017, Urdaneta Power Transformer Bank No. 3 was tripped out by transformer differential relay due to insulation failure of the primary phase A power cable. The electrical arc created by the power cable failure triggered a series of events that led to the insulating oil on the overhead conservator tank to leak. This caused a large fire which could no longer be contained by the substation’s fire suppression system. Thus, the MERALCO personnel in the said substation immediately called the Makati City Firemen and the latter was able to extinguish the fire from the affected power transformer.

8. On 5 August 2017 and 6 August 2017, the Urdaneta Power Transformer No.3 was subjected to a series of tests so as to determine its condition after the fire incident. Based from the result of the tests, the power transformer was no longer safe to be energized and was declared for replacement due to the following significant findings: High % Insulation Power Factor (IPF) on H-G, X-G, Y-G, and H-Y windings, Low Insulation Resistance and Polarization Index on H-G, X-G, Y-G, and H-Y windings, Burned-out primary bushing turrets, primary power cable, breather, Buchholz relay and other accessories, as well as broken tertiary bushings.

9. Applicant was constrained not to use the defective Urdaneta Power Transformer Bank No. 3 and to temporarily transfer all of its loads to the adjacent bank Urdaneta 83 MVA Power Transformer Bank No. 2. It was not technically feasible to transfer portions of load of Power Transformer Bank No. 3 to Power Transformer Bank No. 1 due to the configuration set-up.

10. As a result of accommodating the loads of the defective transformer, Urdaneta Power Transformer Bank No. 2 was operating above critical level at 73%. The critical loading of the

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former Power Transformer Bank No. 2 may result to an outage and prolonged and massive interruption in the affected areas. In particular, the supply of electricity to customers in portions of Taguig City, such as but not limited to, Enderun Colleges and Bonifacio Water Corporation and in the City of Makati, such as but not limited to, Ayala Land Inc., Citi Tower Condominium Corp., Citi Center Condominium Corp., Phil Long Distance Tel Co., Tower One and Exchange Plaza Condominium Corp., The World Centre Condominium, Makati Shangrila Hotel, Department of Trade and Industry and Asian Institute of Management, will be adversely affected.

11. Thus, there is a need to replace the defective power transformer with a new 83 MVA Power Transformer in order to avert the prolonged and widespread power interruptions that would have affected customers in the City of Makati and portions of City of Taguig. Subsequently, the new Power Transformer was energized on 10 December 2017.

Shown below are the projected loadings of the affected power transformers with and without the replacement of Urdaneta Power Transformer Bank No. 3.

**Table 1: Without Project**

<b>Parameter Under Consideration</b>	
Loading of Urdaneta 83-MVA Bank No. 2	73.0%
System Loss	1,739,198 kWh

**Table 2: With Project**

<b>Parameter Under Consideration</b>	
Loading of Urdaneta 83-MVA Bank No. 3	46.0%
Loading of Urdaneta 83-MVA Bank No. 2	34.0%
System Loss	1,522,907 kWh

12. In the event of another outage of adjacent power transformer, coupled with the non-replacement of the Urdaneta Bank No. 3, there will be approximately 15.26 MVA unserved demand in the areas. Thus, it was crucial that the new power transformer was immediately installed in Urdaneta Substation.

13. The estimated cost of the emergency replacement including the cost of the 83 MVA, 115 kV – 34.5 kV, three-phase power transformer with OLTC to be installed at Urdaneta Substation is **Sixty Million Two Hundred Sixty Seven Thousand Nine Hundred Thirty Seven and Thirty Three Centavos (Php60,267,937.33)**. This amount also includes costs of neutral reactor, power cables, sealing end terminations, transformer oil, taxes, duties, brokerage, trucking services and installation.

14. In further support of the Application, attached hereto are the following documents:

- **Annex "A"** – Emergency CAPEX Project Information Summary with supporting documents: (i) Technical and Economic Analysis, (ii) Cost Estimates; (c) Expenditure Summary; (iii) Cost Benefit Analysis Calculation; and (iv) Gantt Chart;
- **Annex "B"** – Documents showing the results of tests conducted on Power Transformer Bank No. 3; and
- **Annex "C"** – Judicial Affidavit of Engr. Mario delos Reyes, Manager and Head of Applicant's Substation Services Asset Management Office.

#### **PRAYER**

**WHEREFORE**, it is respectfully prayed to this Honorable Commission that the Applicant's emergency replacement of power transformer at the Urdaneta Substation be **APPROVED**.

Other relief just and equitable under the premises are likewise prayed for.

Finding the said Application to be sufficient in form and in substance with the required fees having been paid, the same is hereby set for determination of compliance with the jurisdictional requirements, expository presentation, Pre-trial Conference, and presentation of evidence on **3 July 2018 at nine o'clock in the morning (9:00 A.M.), at the ERC Hearing Room, 15<sup>th</sup> Floor, Pacific Center Building, San Miguel Avenue, Pasig City.**

Accordingly, MERALCO is hereby directed to:

- 1) Cause the publication of the attached Notice of Public Hearing in two (2) newspapers of nationwide circulation in the Philippines at its own expense, twice (2x) within two (2) successive weeks, the dates of publication not being less than seven (7) days apart and the date of the last publication to be made not later than ten (10) days before the date of the scheduled initial hearing;
- 2) Furnish with copies of this Order and the attached Notice of Public Hearing the Offices of the Provincial Governors, City and Municipal Mayors, and the Local Government Unit (LGU) legislative bodies within the affected franchise area for the appropriate posting thereof on their respective bulletin boards;

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- 3) Inform of the filing of the *Application*, its reasons therefor, and of the scheduled hearing thereon, the consumers within the affected franchise area, by any other means available and appropriate;
- 4) Furnish with copies of this Order and the attached Notice of Public Hearing, the Office of the Solicitor General (OSG), the Commission on Audit (COA), and the Committees on Energy of both Houses of Congress. They are hereby requested, if they so desire to send their duly authorized representatives at the scheduled hearing; and
- 5) Furnish with copies of the *Application* and its attachments all those making requests therefor, subject to reimbursement of reasonable photocopying costs.

On the date of the initial hearing, Applicant must submit to the Commission its written compliance with the aforementioned jurisdictional requirements attaching therewith, methodically arranged and duly marked the following:

- 1) The evidence of publication of the attached Notice of Public Hearing consisting of affidavits of the Editors or Business Managers of the newspapers where the said Notice of Public Hearing was published, and the complete issues of the said newspapers;
- 2) The evidence of actual posting of this Order and the attached Notice of Public Hearing, consisting of certifications issued to that effect, signed by the aforementioned Governors, Mayors, and LGU legislative bodies or their duly authorized representatives, bearing the seals of their offices;
- 3) The evidence of other means employed by Applicant to inform of the filing of the *Application*, its reasons therefore, and of the scheduled hearing thereon, the consumers within the affected franchise area;
- 4) The evidence of receipt of copies of this Order and the attached Notice of Public Hearing by the Office of the Solicitor General (OSG), the Commission on Audit (COA), and the Committees on Energy of both Houses of Congress;
- 5) The evidence of receipt of copies of the *Application* and its attachments by all those making requests therefor, if any; and

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- 6) Such other proofs of compliance with the requirements of the Commission.

Applicant and all interested parties are also required to submit, at least five (5) days before the date of initial hearing and Pre-trial Conference, their respective Pre-trial Briefs containing, among others:

- 1) A summary of admitted facts and proposed stipulation of facts;
- 2) The issues to be tried or resolved;
- 3) The documents or exhibits to be presented, stating the purposes and proposed markings therefore; and
- 4) The number and names of the witnesses, with their written testimonies in a Judicial Affidavit form attached to the Pre-trial Brief.

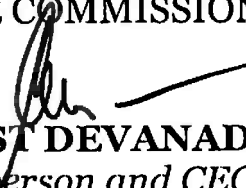
Failure of Applicant to comply with the above requirements within the prescribed period shall be a ground for cancellation of the scheduled hearing, and the resetting of which shall be six (6) months from the said date of cancellation.

MERALCO must also be prepared to make an expository presentation of the instant *Application*, aided by whatever communication medium that it may deem appropriate for the purpose, in order to put in plain words and explain, for the benefit of the consumers and other concerned parties, what the *Application* is all about and the reasons and justifications being cited in support thereof.

**SO ORDERED.**

Pasig City, 20 March 2018.

FOR AND BY AUTHORITY  
OF THE COMMISSION:

  
**AGNES VST DEVANADERA**  
*Chairperson and CEO*

  
LS/SLAN/RTB/APV

**ERC**

Office of the Chairperson



\*AVSTD-2018-4-510-0039\*

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**COPY FURNISHED:**

1. Atty. Francis Dino S. Antonio, Atty. Hazel Rose B. See and  
Atty. Adrian Rex C. Dimalanta  
*Counsel for Applicant MERALCO*  
7<sup>th</sup> Floor, Lopez Building, Ortigas Avenue, Barangay Ugong, Pasig City
2. Manila Electric Company (MERALCO)  
*Applicant*  
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3. Office of the Solicitor General (OSG)  
134 Amorsolo Street, Legaspi Village, Makati City
4. Commission on Audit (COA)  
Commonwealth Avenue, Quezon City
5. Senate Committee on Energy  
GSIS Building, Roxas Boulevard, Pasay City
6. House of Representatives Committee on Energy  
Batasan Hills, Quezon City
7. Philippine Chamber of Commerce and Industry (PCCI)  
3<sup>rd</sup> Floor, Chamber and Industry Plaza  
1030 Campus Avenue corner Park Avenue  
McKinley Town Center, Fort Bonifacio, Taguig City
8. The City Mayor  
City of Manila
9. LGU Legislative Body  
City of Manila
10. The City Mayor  
Quezon City
11. LGU Legislative Body  
Quezon City
12. The City Mayor  
City of Caloocan
13. LGU Legislative Body  
City of Caloocan
14. The City Mayor  
City of Makati
15. LGU Legislative Body  
City of Makati
16. The City Mayor  
City of Malabon
17. LGU Legislative Body  
City of Malabon
18. The City Mayor  
City of Mandaluyong

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19. LGU Legislative Body  
City of Mandaluyong
20. The City Mayor  
City of Muntinlupa
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City of Muntinlupa
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City of San Jose del Monte, Bulacan
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San Juan City

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40. LGU Legislative Body  
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Navotas, Metro Manila

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Gen. Mariano Alvarez, Cavite

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Cabuyao, Laguna



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237. Office of the Governor  
Province of Rizal
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239. Office of the Governor  
Province of Laguna

- 240. LGU Legislative Body  
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- 247. Office of the Governor  
Province of Quezon
- 248. LGU Legislative Body  
Province of Quezon
- 249. Office of the Governor  
Province of Bulacan
- 250. LGU Legislative Body  
Province of Bulacan
- 251. Regulatory Operations Service (ROS)  
[Standards and Compliance Monitoring Division (SCMD)]  
17<sup>th</sup> Floor, Pacific Center Building, San Miguel Avenue, Pasig City