

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



**IN THE MATTER OF THE
APPLICATION FOR
APPROVAL OF THE
EMERGENCY INSTALLATION
OF ONE (1) 83 MVA POWER
TRANSFORMER AT NORTH
PORT SUBSTATION**

ERC CASE NO. 2016-040 RC

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

X ----- X

D U C K E T E D
Date: JUL 25 2016
By: [Signature]

O R D E R

On 8 April 2016, the Manila Electric Company (MERALCO) filed an Application for approval of the emergency installation of one (1) 83 MVA Power Transformer at the North Port Substation.

In the said Application, MERALCO alleged the following:

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 the North Port Substation's defective Power Transformer Bank No. 2.

[Signature]

4. The Application is being filed pursuant to the Honorable Commission's Resolution No. 26, Series of 2009, entitled: "*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 emergency project through the DU's rates, the same will go through the process of evaluation by the Honorable Commission during the regulatory reset of the DU, 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 DUs.

BACKGROUND

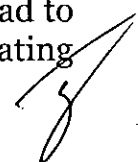
6. The North Port Substation is located at Lot 1, Tayuman, Tondo, Manila. The said substation has six (6) Power Transformer Banks. Power Transformer Bank Nos. 1, 2 and 6 have a rating of 115kV-34.5kV, while the remaining banks (3, 4 and 5) have a 34.5kV-6.24kV rating. However, the Power Transformer Bank Nos. 3, 4 and 5 are only drawing power from Bank Nos. 1, 2 and 6.

7. On 15 December 2015, North Port Power Transformer Bank No. 2 was tripped out by transformer differential relay with targets of phases B & C due to exploded high side bushings (H1 & H2).

8. Thus, the power transformer was immediately subjected to initial test on 16 December 2015 that showed relatively low insulation resistance measured on primary to ground (H-G) and carbonized insulating oil on the OLTC and main tank. The test also indicated that there was a need to replace the damaged bushings.

9. On 20 December 2015, Winding Resistance and Turn Ratio test was performed on the power transformer without primary and secondary bushings. The results showed relatively low winding resistance on H1-H0 windings and low % turn ratio on H0H1-X0X1 windings, and confirmed that there was a need to replace the bushings and recondition the insulating oil.

10. Accordingly, the tripping out of North Port Power Transformer Bank No. 2 necessitated the transfer of its load to adjacent power transformers with 115 kV-34.5 kV rating



namely, North Port 133 MVA Bank No. 6 and Tutuban 83 MVA Bank No. 2.

11. With such a setup, the North Port Bank No. 6 was operating above critical level at 80.1% that can adversely affect the quality of electric service to the various major and vital customers in the area such as University of Sto. Tomas, Chinese General Hospital, Department of Public Works and Highways, Asian Terminals, Inc., Asia Brewery, Inc., Philippine Ports Authority, Philippine National Railways and the City Government of Manila.

12. Considering the critical effect of shifting the load of the power transformer to the adjacent North Port Bank No. 6, a stop gap measure had to be undertaken. Applicant had to use an available 83 MVA Power Transformer and temporarily install the same to replace the North Port Power Transformer Bank No. 2 so that the latter power transformer can be pulled out for further testing. The new Power Transformer was energized on 26 January 2016. Shown below are the loadings of the affected power transformers with and without the replacement of North Port Power Transformer Bank No. 2.

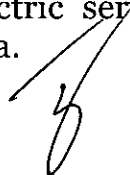
Table 1: Without Project

Parameter Under Consideration	
Loading of North Port 133-MVA Bank No. 6	80.1%
Loading of Tutuban 83-MVA Bank No. 2	55.0%
System Loss	8,479,172 kWh

Table 2: With Project

Parameter Under Consideration	
Loading of North Port 133-MVA Bank No. 6	37.1%
Loading of Tutuban 83-MVA Bank No. 2	45.3%
Loading of North Port 83-MVA Bank No. 2	52.6%
System Loss	8,229,062 kWh

13. The new 83 MVA Power Transformer had to be temporarily installed in order to normalize the level of quality of electric service of the affected customers in the City of Manila.



14. Several preparatory activities had to be undertaken before the final testing of the replaced power transformer such as, fabrication of adapter for bushings, draining of carbonized insulating oil, and installation of adapters and replacement of test bushings and sealing.

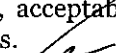
15. On 24 February 2016, a final test was conducted on the power transformer with replaced bushings. The results of the final test were released on 03 March 2016 where the Power Transformer Bank No. 2 was declared defective since the measured turns ratio of 90.01% on HO, H1-XOX1 windings exceeded the limits due turn-to-turn short on HOH1 winding.¹ The Dissolved Gas Analysis (DGA) also showed high generation of combustible gases at the time of fault as verified in the field and laboratory equipment. At this point, the new 83 MVA Power Transformer that was earlier temporarily installed was considered a permanent replacement.

16. It was extremely important for the Applicant to immediately implement the replacement of the defective transformer at North Port Substation in order to serve and promote public interest and welfare in a more suitable and adequate manner, as power interruptions in the affected areas will be avoided and affected customers will not be burdened with higher line losses resulting from emergency load shifting.

17. The cost of the emergency replacement including the cost of the 83 MVA, 115 kV–34.5 kV, three-phase power transformer with OLTC installed at North Port Substation is **FIFTY FOUR MILLION SEVEN HUNDRED SIXTY TWO THOUSAND THREE HUNDRED EIGHTY EIGHT & 98/100 PESOS (Php54,762,388.98)**. This amount also includes costs of transformer oil, taxes, duties, brokerage, trucking services and installation.

18. 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.2; and

¹ As per IEEE Standard C57.12.00-2006, acceptable tolerance values for winding ratios should be within $\pm 0.5\%$ of the nameplate voltages. 

- **Annex “C”** – Judicial Affidavit of Engr. Jose Mari P. Melendres, Vice President and Head of Applicant’s Sub-transmission Services Office.

PRAYER

WHEREFORE, it is respectfully prayed to this Honorable Commission that the emergency installation of one (1) 83 MVA, 115 kV – 34.5 kV, three-phase power transformer with OLTC at the North Port Substation be **APPROVED**.

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

Finding the said Application sufficient in form and 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 **07 September 2016 (Wednesday) at two o’clock in the afternoon (02:00 P.M.) at the ERC Hearing Room, 15th Floor, Pacific Center Building, San Miguel Avenue, Pasig City.**

MERALCO is hereby directed to cause the publication of the attached Notice of Public Hearing in two (2) newspapers of general 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, with the date of last publication made not later than ten (10) days before the date of the scheduled initial hearing. It is also directed to inform the consumers within the franchise area of MERALCO, by any other means available and appropriate, of the filing of the instant Application, its reasons therefor, and of the scheduled hearing thereon.

Let copies of the Application, this Order and the attached Notice of Public Hearing be furnished 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.

Likewise, let copies of this Order and the attached Notice of Public Hearing be furnished to the Offices of the Provincial Governors, the City and Municipal Mayors, and the Local Government Unit (LGU) Legislative Bodies within MERALCO’s



franchise area for the appropriate posting thereof on their respective bulletin boards.

MERALCO is hereby directed to furnish all those making requests therefor with copies of the Application and its attachments, subject to reimbursement of reasonable photocopying costs.

On the date of the initial hearing and Pre-trial Conference, MERALCO must submit to the Commission its written Compliance with the jurisdictional requirements attaching therewith, methodically arranged and duly marked, the evidence of the actual posting and publication of the 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, and the affidavit of the Editors or Business Managers of the newspapers where said Notice of Public Hearing was published, together with the complete issue of the said newspapers, and such other proofs of compliance with the requirements of the Commission.

MERALCO and all interested parties are directed 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:

- a) A summary of admitted facts and proposed stipulation of facts;
- b) The issues to be tried or resolved;
- c) The documents or exhibits to be presented, stating the purposes and proposed markings therefore; and
- d) The number and names of the witnesses, with their written testimonies in an individual affidavit form, to be attached to the Pre-trial Brief.

Failure of MERALCO to submit the required Pre-trial Brief and Judicial Affidavits of its witnesses 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 said date of cancellation.

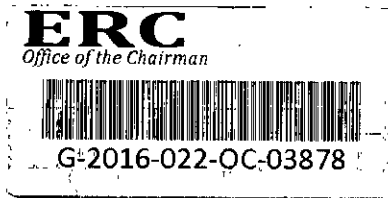


As part of the Pre-trial Conference, MERALCO must also be prepared to make an Expository Presentation of their Application, aided by whatever communication medium it may deem appropriate for the purpose, in order to put in plain words and explain, for the benefit of the consumers and other concerned parties, what the Application is all about and the reasons and justifications being cited in support thereof.

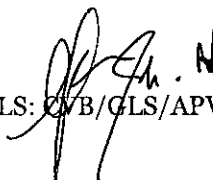
SO ORDERED.

Pasig City, 11 July 2016.

FOR AND BY AUTHORITY
OF THE COMMISSION:



JOSE VICENTE B. SALAZAR
Chairman and CEO


LS: CVB/GLS/APV

Copy Furnished:

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7th Floor, Lopez Building, Ortigas Avenue, Barangay Ugong, Pasig City
2. **Office of the Solicitor General**
134 Amorsolo Street, Legaspi Village
Makati City, Metro Manila
3. **Commission on Audit**
Commonwealth Avenue
Quezon City, Metro Manila
4. **Senate Committee on Energy**
GSIS Bldg. Roxas Blvd., Pasay City
Metro Manila
5. **House Committee on Energy**
Batasan Hills, Quezon City, Metro Manila
6. **Philippine Chamber of Commerce and Industry (PCCI)**
Campus Avenue corner Park Avenue,
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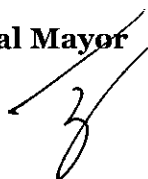
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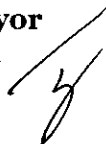
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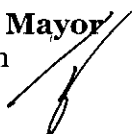
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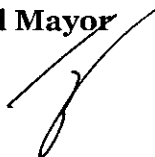
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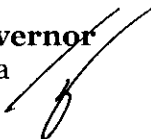
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219. **The Municipal Mayor**
Tiaong, Quezon



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- 249. **PSA TWG – 1**
Finance and Administrative Service, 14th Floor, Pacific Center, Ortigas Avenue,
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