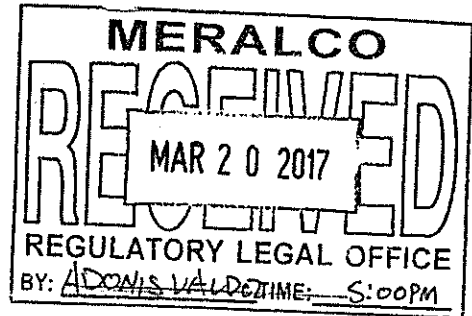


Republic of the Philippines
ENERGY REGULATORY COMMISSION
San Miguel Avenue, Pasig City

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



ERC CASE NO. 2016-166 RC

MANILA ELECTRIC
COMPANY (MERCALCO),
Applicant.
X-----X

D O C K E T E D
Date: MAR 20 2017
By: W

ORDER

On 01 September 2016, Manila Electric Company (MERCALCO) filed an *Application* seeking the Commission's approval of its plan to replace one of its 83 MVA power transformer in MERCALCO's Balintawak Substation.

MERCALCO, likewise, 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 CAPEX project for the replacement of the defective Balintawak Power Transformer Bank No. 6.

4. The two main project components of the emergency project are: (a) temporary installation of an 83-MVA, 115 kV-34.5 kV, three (3)-phase power transformer with NLTC; and (b) permanent installation of a new 83-MVA, 115 kV-34.5 kV, three (3)-phase power transformer with OLTC.

5. The Application is 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.

6. 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

7. The Balintawak Substation is located at Lot 1, EDSA, Brgy. Apolonio Samson, Balintawak District, Quezon City. The Power Transformer Banks in said substation are Power Transformer Banks Nos. 1, 2, 3 and 7, which have a rating of 230kV-115kV, and Power Transformer Bank Nos. 4, 5 and 6, which have a 115kV-34.5kV rating. However, Power Transformer Bank Nos. 4, 5 and 6 are only drawing power from Bank Nos. 1, 2, 3 and 7.

8. On 20 June 2016, Balintawak Power Transformer Bank No. 6 was tripped out by transformer differential relay through its lockout relay due to exploded secondary bushing (X3).

9. On 21 June 2016, the power transformer was immediately subjected to initial test after replacing H1, H2, H3 and X3 bushings, secondary lightning arresters and insulators from both the transformer and 34.5kV switchgear which were damaged due to electric arc and shrapnel during explosion. The test results showed critical low insulation level between Primary Winding to Ground and between Secondary Winding to Ground. As a remedial measure, the power transformer was subjected to hot-oil circulation from June 22 to June 26, 2016 so as to improve its performance and condition.

10. On 27 June 2016, final confirmatory electrical test was conducted. Based from the results of the tests, the power transformer was no longer safe to be energized and was declared for replacement due to the following significant findings: (a) High % Insulation Power Factor (IPF) on H-G and X-G windings; (b) Increased in dielectric watts loss of H-G and X-G winding insulations; (c) Low insulation resistance on H-G and X-G windings; (d) Low insulation resistance between core and ground;

and (e) Increased in primary excitation current in all phases as compared to the previous test results.

11. Accordingly, from 20 June to 28 June 2016, the loads of Balintawak Transformer Bank No. 6 had to be transferred to adjacent power transformers with 115kV-34.5kV rating namely, Balintawak 83-MVA Bank No. 5, Sta. Mesa 83-MVA Bank Nos. 5 and 7, Bagbaguin 83-MVA Bank No. 1, Diliman 83-MVA Bank No. 3, Kamuning 83-MVA Bank No. 2, Grace Park 83-MVA Bank No. 1 and Kaybiga 83-MVA Bank No. 2.

12. However, when Banawe Substation was commissioned on 29 June 2016, Banawe power transformer bank was able to permanently accommodate at normal load level the portion of loads of Balintawak Transformer Bank No. 6 that were previously transferred to Sta. Mesa 83-MVA Bank Nos. 5 and 7, Bagbaguin 83-MVA Bank No. 1, Diliman 83-MVA Bank No. 3, Kamuning 83-MVA Bank No. 2.

13. Nonetheless, there was still a need to temporarily shift the other remaining portion of loads of the Balintawak Power Transformer Bank No. 6 to adjacent power transformers particularly, Balintawak 83-MVA Bank No. 5, Grace Park 83-MVA Bank No. 1 and Kaybiga 83-MVA Bank No. 2.

14. With such a set-up, Balintawak Bank No. 5 at and Grace Park 83-MVA Bank No. 1 were operating at critical level at 78% and 72% respectively. With the critical loading of the said power transformers, any outage of these power transformers may result to prolonged and massive interruption in the affected areas. In particular, the same will adversely affect the supply of electricity to customers in said areas which include Universal Steel Smelting Corp., Inc., Trinoma North Triangle Depot Commercial Corp., Light Rail Rectifier Substations, Maynilad and Manila Central University Hospital.

15. Considering the adverse effect of shifting the loads of said failed power transformer to the adjacent power transformers, a stop gap measure had to be undertaken. Hence, Applicant was constrained to use an available 83-MVA Power Transformer with No-Load Tap Changer (NLTC) to temporarily replace the defective transformer, pending the acquisition of a new power transformer with OLTC from abroad. The temporary replacement power transformer was energized on 10 July 2016.

16. However, there is a need to replace the power transformer with NLTC with a new power transformer with OLTC considering that the same is incapable of providing flexibility for tying and carrying the feeder loads served by the adjacent power transformers. Hence, voltage regulation problems may be experienced by customers and the load capacity of Power Transformer Bank No. 6 may not be fully maximized for the benefit of customers. The new power transformer with OLTC will be subsequently installed given the limitations of the currently installed power transformer with NLTC. This will ensure the

reliability and quality of electric service to customers in the affected areas.

17. Shown below are the projected loadings of the affected power transformers with and without the replacement of the defective Balintawak Power Transformer Bank No. 6.

Table 1: Without Project

Parameter Under Consideration	
Loading of Balintawak 83-MVA Bank No. 5	78%
Loading of Grace Park 83-MVA Bank No. 1	72%
Loading of Kaybiga 83-MVA Bank No. 2	60%
System Loss	5,398,578 k W h

Table 2: With Project

Parameter Under Consideration	
Loading of Balintawak 83-MVA Bank No. 6	46%
Loading of Balintawak 83-MVA Bank No. 5	53%
Loading of Grace Park 83-MVA Bank No. 1	59%
Loading of Kaybiga 83-MVA Bank No. 2	52%
System Loss	4,989,142 k W h

18. In view of the foregoing, there is a need to implement the emergency project for replacement of 83-MVA Power Transformer in Balintawak substation.

19. The cost for the temporary installation of power transformer with NLTC is Php 1,045,219.20. The same includes the installation of the available 83-MVA, 115 kV – 34.5 kV, three-phase power transformer with NLTC and costs for transformer oil and trucking services. While the cost for permanent installation of power transformer is Php 55,796,508.15. This includes the cost of new 83-MVA, 115 kV – 34.5 kV, three-phase power transformer with OLTC and costs for transformer oil, taxes, duties, brokerage, trucking services and installation.

20. Thus, the total cost for the emergency replacement of power transformer in Balintawak Substation is Fifty Six Million Eight Hundred Forty One Thousand Seven Hundred Twenty Seven Pesos and Thirty Five Centavos (PhP 56,841,727.35).

21. 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. 6; 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 Balintawak Substation be APPROVED.

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

Finding the said *Application* sufficient in substance with the required fees having been paid, the same is hereby set for determination of compliance with jurisdictional requirements, expository presentation, Pre-trial Conference, and presentation of evidence on **24 May 2017 at one o'clock in the afternoon (1:00 P.M.), at the ERC Hearing Room, 15th Floor, Pacific Center, 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 their 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 the Offices of the Provincial Governors, the City and Municipal Mayors, and the Local Government Unit (LGU) legislative bodies within the affected franchise area with copies of this Order and the attached Notice of Public

Hearing for the appropriate posting thereof on their respective bulletin boards;

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

On the date of the initial hearing, Applicants 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*, the 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 the attachments by all those making requests therefor, if any; and
- 6) Such other proofs of compliance with the requirements of the Commission.

Applicants 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.

Applicant must also be prepared to make an expository presentation of the instant *Application* aided by whatever communication medium that they 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, 06 March 2017.

FOR AND BY AUTHORITY
OF THE COMMISSION:


JOSE VICENTE B. SALAZAR
Chairman and CEO

LS: /APV



C-2017-017-OC-00670

Copy furnished:

1. Atty. Francis Dino S. Antonio
Counsels for Applicant MERALCO
7th Floor, Lopez Building, Ortigas Avenue, Barangay Dugong, Pasig City
2. Office of the Solicitor General (OSG)
134 Amorsolo Street, Legaspi Village
Makati City, Metro Manila
3. Commission on Audit (COA)
Commonwealth Avenue, Quezon City
4. Senate Committee on Energy
GSIS Bldg. Roxas Blvd., Pasay City
5. House Committee on Energy
Batasan Hills, Quezon City
6. Philippine Chamber of Commerce and Industry (PCCI)
Campus Avenue corner Park Avenue,
McKinley Town Center, Fort Bonifacio, Taguig City
7. The City Mayor
City of Manila
8. LGU Legislative Body
City of Manila
9. The City Mayor
Quezon City
10. LGU Legislative Body
Quezon City
11. The City Mayor
City of Caloocan
12. LGU Legislative Body
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13. The City Mayor
City of Makati
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15. The City Mayor
City of Malabon
16. LGU Legislative Body
City of Malabon
17. The City Mayor
City of Mandaluyong
18. LGU Legislative Body
City of Mandaluyong

ERC CASE NO. 2016-166 RC
ORDER/ 06 MARCH 2017
PAGE 9 OF 17

19. The City Mayor
City of Muntinlupa
20. LGU Legislative Body
City of Muntinlupa
21. The City Mayor
City of San Jose del Monte, Bulacan
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City of San Jose del Monte, Bulacan
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City of Valenzuela
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Las Piñas City
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ERC CASE NO. 2016-166 RC
ORDER/ 06 MARCH 2017
PAGE 10 OF 17

47. The City Mayor
Antipolo City, Rizal
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Antipolo City, Rizal
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Taguig, Metro Manila
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General Aguinaldo, Cavite
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Indang, Cavite
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Mendez, Cavite
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73. The Municipal Mayor
Alfonso, Cavite
74. LGU Legislative Body

ERC CASE NO. 2016-166 RC
ORDER/ 06 MARCH 2017
PAGE 11 OF 17

- Alfonso, Cavite
75. The Municipal Mayor
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 101. The Municipal Mayor
Carmona, Cavite

ERC CASE NO. 2016-166 RC
ORDER/ 06 MARCH 2017
PAGE 12 OF 17

102. LGU Legislative Body
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Cainta, Rizal
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Calauan, Laguna
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Pila, Laguna
184. LGU Legislative Body
Pila, Laguna

ERC CASE NO. 2016-166 RC
ORDER/ 06 MARCH 2017
PAGE 15 OF 17

185. The Municipal Mayor
Sta.Cruz, Laguna
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Candelaria, Quezon

ERC CASE NO. 2016-166 RC
ORDER/ 06 MARCH 2017
PAGE 16 OF 17

213. The Municipal Mayor
Sariaya, Quezon
214. LGU Legislative Body
Sariaya, Quezon
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Apalit, Pampanga
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Province of Rizal
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Province of Rizal
237. Office of the Governor
Province of Laguna
238. LGU Legislative Body
Province of Laguna
239. Office of the Governor
Province of Batangas
240. LGU Legislative Body

ERC CASE NO. 2016-166 RC
ORDER/ 06 MARCH 2017
PAGE 17 OF 17

- Province of Batangas
241. Office of the Governor
Province of Cavite
242. LGU Legislative Body
Province of Cavite
243. Office of the Governor
Province of Pampanga
244. LGU Legislative Body
Province of Pampanga
245. Office of the Governor
Province of Quezon
246. LGU Legislative Body
Province of Quezon
247. Office of the Governor
Province of Bulacan
248. LGU Legislative Body
Province of Bulacan
252. ROS SCMD
Energy Regulatory Commission
17th Floor, Pacific Center, San Miguel Avenue
Pasig City