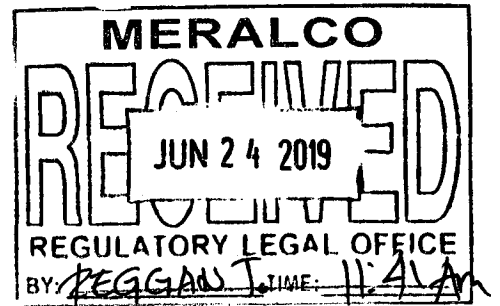


Republic of the Philippines
ENERGY REGULATORY COMMISSION
San Miguel Avenue, Pasig City

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



ERC CASE NO. 2019-037 RC

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

Promulgated:
JUN 21 2019

ORDER

On 23 May 2019, Manila Electric Company (MERALCO) filed an *Application* dated 21 May 2019, seeking the approval of its emergency replacement of one (1) 100-MVA power transformer at Pamplona Substation.

The pertinent portions of the said *Application* are hereunder quoted as follows:

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 Pamplona Power Transformer Bank No. 1.

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; and (b) permanent installation of a new 100 MVA, 115 kV–34.5 kV, three (3)-phase power transformer.
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 said emergency project through Applicant’s rates, the same will go through the process of evaluation by the Honorable Commission during the regulatory reset process in accordance with the Rules for the Setting of Distribution Wheeling Rates (RDWR) for Distribution Utilities (DUs).

BACKGROUND

7. The Pamplona Substation is located at Aria St., Sitio Kubokob, Brgy. Pamplona II, Las Piñas City and serves the entire City of Las Piñas, including portions of Bacoor City and Parañaque City. The Pamplona Substation has two (2) 115 kV-34.5 kV power transformer banks: one (1) 100 MVA power transformer bank, and one (1) 83 MVA power transformer bank.
8. On 17 March 2019, the Pamplona 100 MVA Power Transformer Bank No. 1 was tripped out by the transformer differential relay with Phase C target due to turn-to-turn short on the HoH1 winding. The power transformer was immediately subjected to a series of tests on the same day. Results of the tests revealed that the transformer failed the transformer turns ratio (TTR) test due to high exciting current on HoH1 winding. Additional test conducted showed low insulation resistance between the primary and secondary (H-X) windings.
9. Furthermore, Transformer Fault Gas Analysis done on the gas and oil samples taken from the Buchholz relay and main tank respectively, showed high concentration combustible gas Acetylene (C₂H₂) which confirmed the occurrence of high current discharge in the power transformer.
10. Given these adverse test results, Applicant was constrained to replace the defective Pamplona Power Transformer Bank No. 1, and to temporarily transfer its loads to the adjoining transformer banks with 115 kV-34.5 kV rating, namely, the Pamplona Bank No. 2, BF-Parañaque Bank No. 1, Bacoor Bank No. 1, Central Business Park 1 Island A (“CBP1A”) Bank No. 1, Ayala Alabang Bank No. 2 and Sun Valley Bank No. 1.

11. This set-up caused the following banks to operate at critical loading level: Pamplona Bank No. 2 at 83%, BF Parañaque Bank No. 1 at 78%, CBP1A Bank No. 1 at 78%, and Sun Valley Bank No. 1 at 74% respectively.
12. With the critical loading of said power transformers, any outage thereof would have resulted to the prolonged and massive interruption in the cities of Las Piñas, Bacoor and Parañaque. In particular, an outage would critically affect the supply of electricity to vital customers in said areas, such as the Manuela Corporation, Republic Steel Tube Inc., Golden Arches Development Corporation, and Neltex Development Co. Inc.
13. Considering the imminent risks posed by shifting the loads to the adjoining power transformers, MERALCO was constrained to undertake an interim solution. Thus, on 23 March 2019, Applicant replaced the defective Pamplona Power Transformer No. 1 with an available 83 MVA, 115 kV-34.5 kV Power Transformer intended for the Development of Binangonan 115kV – 34.5kV Substation Project. This temporary solution was done to relieve the critical loading of abovementioned banks. The replacement transformer was then energized on 10 April 2019.
14. However, there is still a need to replace the temporary 83 MVA Power Transformer installed at the Pamplona Bank No. 1 with a new 100 MVA Power Transformer given the load requirements of the area. Although the temporary solution was sufficient to maintain electricity supply to the customers, the current loading of the 83 MVA Power Transformer is already at a critical loading level of 73%. Hence, a 100 MVA Power Transformer would be the best solution to ensure adequate capacity and better reliability in the area.
15. Furthermore, since this is only an interim solution, the 83 MVA Power Transformer should be returned to the Binangonan 115kV-34.5kV Substation Project as soon as possible in order to serve its intended purpose.
16. Shown below are the projected loadings of the affected power transformers with and without the replacement of the defective 100 MVA Pamplona Power Transformer.

Table 1: Without Project

Parameter Under Consideration	
Loading of Pamplona Bank No. 2	83%
Loading of BF-Parañaque Bank No. 1	78%
Loading of Bacoor Bank No. 1	66%
Loading of CBP1A Bank No. 1	78%
Loading of Ayala Alabang Bank No. 2	60%

Loading of Sun Valley Bank No. 1	74%
System Loss	1,241,189 kWh

Table 2: With Project

Parameter Under Consideration	
Loading of Pamplona Bank No. 1	60%
Loading of Pamplona Bank No. 2	60%
Loading of BF-Parañaque Bank No. 1	73%
Loading of Bacoor Bank No. 1	55%
Loading of CBP1A Bank No. 1	65%
Loading of Ayala Alabang Bank No. 2	49%
Loading of Sun Valley Bank No. 1	63%
System Loss	1,111,750 kWh

17. In view of the foregoing, there was an urgent need to implement the emergency project to replace the 100 MVA Power Transformer in the Pamplona Substation.
18. The cost for the temporary installation of power transformer is **PESOS: FOUR MILLION ONE HUNDRED ELEVEN THOUSAND FOUR HUNDRED EIGHTY-FOUR & 62/100 (PhP 4,111,484.62)**. The same includes the installation of the available 83-MVA, 115 kV–34.5 kV, three-phase power transformer and costs for transformer oil and trucking services.
19. The cost for permanent installation of power transformer is **PESOS: SIXTY-SIX MILLION EIGHT HUNDRED SIXTY-TWO THOUSAND ONE HUNDRED SEVEN & 5/100 (PhP 66,862,107.05)**. This includes the cost of new 100 MVA, 115 kV–34.5 kV, three-phase power transformer 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 Pamplona Substation is **PESOS: SEVENTY MILLION NINE HUNDRED SEVENTY-THREE THOUSAND FIVE HUNDRED NINETY-ONE & 67/100 (PhP70,973,591.67)**.
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 Pamplona Power Transformer Bank No. 1; and
- **Annex “C”** – Judicial Affidavit of Engr. Mario Angelito A. 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 the power transformer at the Pamplona Substation be **APPROVED**.

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

Finding the said *Application* to be 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 **24 July 2019 (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.**

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, 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;
- 3) Inform the consumers within MERALCO’s franchise area of the filing of the *Application*, its reasons therefor, and of the

scheduled hearing thereon, 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* were 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 the consumers within its franchise area of the filing of the *Application*, its reasons therefor, and of the scheduled hearing thereon;
- 4) The evidence of receipt of copies of this *Order* and the attached *Notice of Public Hearing* by the OSG, the 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
- 6) Such other proof of compliance with the requirements of the Commission.

The Applicant and all interested parties are also required to submit, at least five (5) days before the date of the 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 therefor; 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.

(This space is intentionally left blank.)

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, the nature of the *Application* with relevant information and pertinent details substantiating the reasons and justifications being cited in support thereof.

SO ORDERED.

06 June 2019, Pasig City.

FOR AND BY AUTHORITY
OF THE COMMISSION:


JOSEFINA PATRICIA A. MAGPALE-ASIRIT
Commissioner

LS: /ARQ/ALO

Copy furnished:

1. Manila Electric Company (MERALCO)
Applicant
MERALCO Compound, Ortigas Avenue,
Barangay Ugong, Pasig City
2. Atty. Francis Dino S. Antonio, Hazel Rose B. See, Adrian Rex C. Dimalanta, and Isagani C. Coruña II
Counsel for Applicant MERALCO
7th Floor, Lopez Building
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City of Manila
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City of Manila
7. Office of the City Mayor
Quezon City
8. Office of the LGU Legislative Body
Quezon City
9. Office of the City Mayor
City of Caloocan

ERC CASE NO. 2019-037 RC
ORDER/06 JUNE 2019
PAGE 9 OF 19

10. Office of the LGU Legislative Body
City of Caloocan
11. Office of the City Mayor
City of Makati
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Las Piñas City
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Las Piñas City
33. Office the City Mayor
San Juan City

ERC CASE NO. 2019-037 RC
ORDER/06 JUNE 2019
PAGE 10 OF 19

34. Office of the LGU Legislative Body
San Juan City
35. Office of the City Mayor
Lucena City
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Lucena City
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Taguig, Metro Manila
57. Office of the Municipal Mayor
Pateros, Metro Manila

ERC CASE NO. 2019-037 RC
ORDER/06 JUNE 2019
PAGE 11 OF 19

58. Office of the LGU Legislative Body
Pateros, Metro Manila
59. Office of the Municipal Mayor
General Aguinaldo, Cavite
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Maragondon, Cavite
81. Office of the Municipal Mayor
Ternate, Cavite

ERC CASE NO. 2019-037 RC
ORDER/o6 JUNE 2019
PAGE 12 OF 19

82. Office of the LGU Legislative Body
Ternate, Cavite
83. Office of the Municipal Mayor
Gen. Trias, Cavite
84. Office of the LGU Legislative Body
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Teresa, Rizal
104. Office of the LGU Legislative Body
Teresa, Rizal
105. Office of the Municipal Mayor
Jala-jala, Rizal

ERC CASE NO. 2019-037 RC
ORDER/06 JUNE 2019
PAGE 13 OF 19

106. Office of the LGU Legislative Body
Jala-jala, Rizal
107. Office of the Municipal Mayor
Cardona, Rizal
108. Office of the LGU Legislative Body
Cardona, Rizal
109. Office of the Municipal Mayor
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128. Office of the LGU Legislative Body
Obando, Bulacan
129. Office of the Municipal Mayor
Marilao, Bulacan

ERC CASE NO. 2019-037 RC
ORDER/06 JUNE 2019
PAGE 14 OF 19

130. Office of the LGU Legislative Body
Marilao, Bulacan
131. Office of the Municipal Mayor
Norzagaray, Bulacan
132. Office of the LGU Legislative Body
Norzagaray, Bulacan
133. Office of the Municipal Mayor
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Bustos, Bulacan
152. Office of the LGU Legislative Body
Bustos, Bulacan
153. Office of the Municipal Mayor
Guiguinto, Bulacan

ERC CASE NO. 2019-037 RC
ORDER/06 JUNE 2019
PAGE 15 OF 19

154. Office of the LGU Legislative Body
Guiguinto, Bulacan
155. Office of the Municipal Mayor
Pandi, Bulacan
156. Office of the LGU Legislative Body
Pandi, Bulacan
157. Office of the Municipal Mayor
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San Ildefonso, Bulacan
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Victoria, Laguna
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175. Office of the Municipal Mayor
Magdalena, Laguna
176. Office of the LGU Legislative Body
Magdalena, Laguna
177. Office of the Municipal Mayor
Calauan, Laguna

ERC CASE NO. 2019-037 RC
ORDER/06 JUNE 2019
PAGE 16 OF 19

178. Office of the LGU Legislative Body
Calauan, Laguna
179. Office of the Municipal Mayor
Pila, Laguna
180. Office of the LGU Legislative Body
Pila, Laguna
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Cabuyao, Laguna
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Bay, Laguna
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Bay, Laguna
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Dolores, Quezon
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Dolores, Quezon
199. Office of the Municipal Mayor
Sampaloc, Quezon
200. Office of the LGU Legislative Body
Sampaloc, Quezon
201. Office of the Municipal Mayor
Pagbilao, Quezon

ERC CASE NO. 2019-037 RC
ORDER/06 JUNE 2019
PAGE 17 OF 19

202. Office of the LGU Legislative Body
Pagbilao, Quezon
203. Office of the Municipal Mayor
Lucban, Quezon
204. Office of the LGU Legislative Body
Lucban, Quezon
205. Office of the Municipal Mayor
Tayabas, Quezon
206. Office of the LGU Legislative Body
Tayabas, Quezon
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Candelaria, Quezon
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San Antonio, Quezon
212. Office of the LGU Legislative Body
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Mauban, Quezon
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Mauban, Quezon
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Tiaong, Quezon
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Majayjay, Quezon
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222. Office of the LGU Legislative Body
Sto. Tomas, Batangas
223. Office of the Municipal Mayor
San Pascual, Batangas
224. Office of the LGU Legislative Body
San Pascual, Batangas
225. Office of the Municipal Mayor
Candaba, Pampanga

ERC CASE NO. 2019-037 RC
ORDER/o6 JUNE 2019
PAGE 18 OF 19

226. Office of the LGU Legislative Body
Candaba, Pampanga
227. Office of the Municipal Mayor
San Simon, Pampanga
228. Office of the LGU Legislative Body
San Simon, Pampanga
229. Office of the Municipal Mayor
Apalit, Pampanga
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Apalit, Pampanga
231. Office of the Governor
Province of Rizal
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Province of Cavite
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242. Office of the LGU Legislative Body
Province of Quezon
243. Office of the Governor
Province of Bulacan
244. Office of the LGU Legislative Body
Province of Bulacan
245. Office of the LGU legislative body
Province of Nueva Ecija
246. Office of the Solicitor General
134 Amorsolo Street, Legaspi Village, Makati City
247. Commission on Audit
Commonwealth Avenue, Quezon City
248. Senate Committee on Energy
GSIS Bldg., Roxas Boulevard, Pasay City
249. House Committee on Energy
Batasan Hills, Quezon City

- 250. Office of the President of PCCI
Philippine Chamber of Commerce and Industry (PCCI)
3rd Floor, Chamber and Industry Plaza (CIP)
1030 Campus Avenue corner Park Avenue
McKinley Town Center, Fort Bonifacio
Taguig City

- 251. Regulatory Operations Service
17th Floor, Pacific Center Building, San Miguel Avenue,
Ortigas Center 1600, Pasig City