

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 (MERALCO),
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 (MERALCO) filed an *Application* seeking the Commission's approval of its plan to replace one of its 83 MVA power transformer in MERALCO's Balintawak Substation.

MERALCO, 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: IGG/RRM/ APV



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
City of Caloocan
13. The City Mayor
City of Makati
14. LGU Legislative Body
City of Makati
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
22. LGU Legislative Body
City of San Jose del Monte, Bulacan
23. The City Mayor
City of Valenzuela
24. LGU Legislative Body
City of Valenzuela
25. The City Mayor
City of Pasig
26. LGU Legislative Body
City of Pasig
27. The City Mayor
Pasay City
28. LGU Legislative Body
Pasay City
29. The City Mayor
City of Parañaque
30. LGU Legislative Body
City of Parañaque
31. The City Mayor
Cavite City
32. LGU Legislative Body
Cavite City
33. The City Mayor
Trece Martirez City
34. LGU Legislative Body
Trece Martirez City
35. The City Mayor
Las Piñas City
36. LGU Legislative Body
Las Piñas City
37. The City Mayor
San Juan City
38. LGU Legislative Body
San Juan City
39. The City Mayor
Lucena City
40. LGU Legislative Body
Lucena City
41. The City Mayor
Batangas City
42. LGU Legislative Body
Batangas City
43. The City Mayor
San Pablo City, Laguna
44. LGU Legislative Body
San Pablo City, Laguna
45. The City Mayor
City of Marikina
46. LGU Legislative Body
City of Marikina

ERC CASE NO. 2016-166 RC
ORDER/ 06 MARCH 2017
PAGE 10 OF 17

47. The City Mayor
Antipolo City, Rizal
48. LGU Legislative Body
Antipolo City, Rizal
49. The City Mayor
Tagaytay City, Cavite
50. LGU Legislative Body
Tagaytay City, Cavite
51. The City Mayor
Calamba, Laguna
52. LGU Legislative Body
Calamba, Laguna
53. The City Mayor
Sta. Rosa, Laguna
54. LGU Legislative Body
Sta. Rosa, Laguna
55. The City Mayor
Biñan, Laguna
56. LGU Legislative Body
Biñan, Laguna
57. The City Mayor
Navotas, Metro Manila
58. LGU Legislative Body
Navotas, Metro Manila
59. The Municipal Mayor
Taguig, Metro Manila
60. LGU Legislative Body
Taguig, Metro Manila
61. The Municipal Mayor
Pateros, Metro Manila
62. LGU Legislative Body
Pateros, Metro Manila
63. The Municipal Mayor
General Aguinaldo, Cavite
64. LGU Legislative Body
General Aguinaldo, Cavite
65. The Municipal Mayor
Magallanes, Cavite
66. LGU Legislative Body
Magallanes, Cavite
67. The Municipal Mayor
Amadeo, Cavite
68. LGU Legislative Body
Amadeo, Cavite
69. The Municipal Mayor
Indang, Cavite
70. LGU Legislative Body
Indang, Cavite
71. The Municipal Mayor
Mendez, Cavite
72. LGU Legislative Body
Mendez, Cavite
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
Imus, Cavite
 76. LGU Legislative Body
Imus, Cavite
 77. The Municipal Mayor
Kawit, Cavite
 78. LGU Legislative Body
Kawit, Cavite
 79. The Municipal Mayor
Noveleta, Cavite
 80. LGU Legislative Body
Noveleta, Cavite
 81. The Municipal Mayor
Bacoor, Cavite
 82. LGU Legislative Body
Bacoor, Cavite
 83. The Municipal Mayor
Maragondon, Cavite
 84. LGU Legislative Body
Maragondon, Cavite
 85. The Municipal Mayor
Ternate, Cavite
 86. LGU Legislative Body
Ternate, Cavite
 87. The Municipal Mayor
Gen. Trias, Cavite
 88. LGU Legislative Body
Gen. Trias, Cavite
 89. The Municipal Mayor
Naic, Cavite
 90. LGU Legislative Body
Naic, Cavite
 91. The Municipal Mayor
Rosario, Cavite
 92. LGU Legislative Body
Rosario, Cavite
 93. The Municipal Mayor
Tanza, Cavite
 94. LGU Legislative Body
Tanza, Cavite
 95. The Municipal Mayor
Dasmariñas, Cavite
 96. LGU Legislative Body
Dasmariñas, Cavite
 97. The Municipal Mayor
Gen. Mariano Alvarez, Cavite
 98. LGU Legislative Body
Gen. Mariano Alvarez, Cavite
 99. The Municipal Mayor
Silang, Cavite
 100. LGU Legislative Body
Silang, Cavite
 101. The Municipal Mayor
Carmona, Cavite

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

102. LGU Legislative Body
Carmona, Cavite
103. The Municipal Mayor
Cainta, Rizal
104. LGU Legislative Body
Cainta, Rizal
105. The Municipal Mayor
Taytay, Rizal
106. LGU Legislative Body
Taytay, Rizal
107. The Municipal Mayor
Teresa, Rizal
108. LGU Legislative Body
Teresa, Rizal
109. The Municipal Mayor
Jala-jala, Rizal
110. LGU Legislative Body
Jala-jala, Rizal
111. The Municipal Mayor
Cardona, Rizal
112. LGU Legislative Body
Cardona, Rizal
113. The Municipal Mayor
Baras, Rizal
114. LGU Legislative Body
Baras, Rizal
115. The Municipal Mayor
Angono, Rizal
116. LGU Legislative Body
Angono, Rizal
117. The Municipal Mayor
Tanay, Rizal
118. LGU Legislative Body
Tanay, Rizal
119. The Municipal Mayor
Pililla, Rizal
120. LGU Legislative Body
Pililla, Rizal
121. The Municipal Mayor
Morong, Rizal
122. LGU Legislative Body
Morong, Rizal
123. The Municipal Mayor
Binangonan, Rizal
124. LGU Legislative Body
Binangonan, Rizal
125. The Municipal Mayor
Rodriguez, Rizal
126. LGU Legislative Body
Rodriguez, Rizal
127. The Municipal Mayor
San Mateo, Rizal
128. LGU Legislative Body
San Mateo, Rizal
129. The Municipal Mayor
Meycauayan, Bulacan

ERC CASE NO. 2016-166 RC
ORDER/ 06 MARCH 2017
PAGE 13 OF 17

130. LGU Legislative Body
Meycauayan, Bulacan
131. The Municipal Mayor
Obando, Bulacan
132. LGU Legislative Body
Obando, Bulacan
133. The Municipal Mayor
Marilao, Bulacan
134. LGU Legislative Body
Marilao, Bulacan
135. The Municipal Mayor
Norzagaray, Bulacan
136. LGU Legislative Body
Norzagaray, Bulacan
137. The Municipal Mayor
Sta. Maria, Bulacan
138. LGU Legislative Body
Sta. Maria, Bulacan
139. The Municipal Mayor
Angat, Bulacan
140. LGU Legislative Body
Angat, Bulacan
141. The Municipal Mayor
Doña Remedios Trinidad, Bulacan
142. LGU Legislative Body
Doña Remedios Trinidad, Bulacan
143. The Municipal Mayor
Plaridel, Bulacan
144. LGU Legislative Body
Plaridel, Bulacan
145. The Municipal Mayor
Malolos, Bulacan
146. LGU Legislative Body
Malolos, Bulacan
147. The Municipal Mayor
Calumpit, Bulacan
148. LGU Legislative Body
Calumpit, Bulacan
149. The Municipal Mayor
Pulilan, Bulacan
150. LGU Legislative Body
Pulilan, Bulacan
151. The Municipal Mayor
Hagonoy, Bulacan
152. LGU Legislative Body
Hagonoy, Bulacan
153. The Municipal Mayor
Paombong, Bulacan
154. LGU Legislative Body
Paombong, Bulacan
155. The Municipal Mayor
Bustos, Bulacan
156. LGU Legislative Body
Bustos, Bulacan
157. The Municipal Mayor

ERC CASE NO. 2016-166 RC
ORDER/ 06 MARCH 2017
PAGE 14 OF 17

- Guiguinto, Bulacan
158. LGU Legislative Body
Guiguinto, Bulacan
159. The Municipal Mayor
Pandi, Bulacan
160. LGU Legislative Body
Pandi, Bulacan
161. The Municipal Mayor
Bocaue, Bulacan
162. LGU Legislative Body
Bocaue, Bulacan
163. The Municipal Mayor
Bulacan, Bulacan
164. LGU Legislative Body
Bulacan, Bulacan
165. The Municipal Mayor
Balagtas, Bulacan
166. LGU Legislative Body
Balagtas, Bulacan
167. The Municipal Mayor
Baliwag, Bulacan
168. LGU Legislative Body
Baliwag, Bulacan
169. The Municipal Mayor
San Rafael, Bulacan
170. LGU Legislative Body
San Rafael, Bulacan
171. The Municipal Mayor
San Miguel, Bulacan
172. LGU Legislative Body
San Miguel, Bulacan
173. The Municipal Mayor
San Ildefonso, Bulacan
174. LGU Legislative Body
San Ildefonso, Bulacan
175. The Municipal Mayor
Victoria, Laguna
176. LGU Legislative Body
Victoria, Laguna
177. The Municipal Mayor
Nagcarlan, Laguna
178. LGU Legislative Body
Nagcarlan, Laguna
179. The Municipal Mayor
Magdalena, Laguna
180. LGU Legislative Body
Magdalena, Laguna
181. The Municipal Mayor
Calauan, Laguna
182. LGU Legislative Body
Calauan, Laguna
183. The Municipal Mayor
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
186. LGU Legislative Body
Sta. Cruz, Laguna
187. The Municipal Mayor
Liliw, Laguna
188. LGU Legislative Body
Liliw, Laguna
189. The Municipal Mayor
San Pedro, Laguna
190. LGU Legislative Body
San Pedro, Laguna
191. The Municipal Mayor
Alaminos, Laguna
192. LGU Legislative Body
Alaminos, Laguna
193. The Municipal Mayor
Rizal, Laguna
194. LGU Legislative Body
Rizal, Laguna
195. The Municipal Mayor
Los Baños, Laguna
196. LGU Legislative Body
Los Baños, Laguna
197. The Municipal Mayor
Cabuyao, Laguna
198. LGU Legislative Body
Cabuyao, Laguna
199. The Municipal Mayor
Bay, Laguna
200. LGU Legislative Body
Bay, Laguna
201. The Municipal Mayor
Dolores, Quezon
202. LGU Legislative Body
Dolores, Quezon
203. The Municipal Mayor
Sampaloc, Quezon
204. LGU Legislative Body
Sampaloc, Quezon
205. The Municipal Mayor
Pagbilao, Quezon
206. LGU Legislative Body
Pagbilao, Quezon
207. The Municipal Mayor
Lucban, Quezon
208. LGU Legislative Body
Lucban, Quezon
209. The Municipal Mayor
Tayabas, Quezon
210. LGU Legislative Body
Tayabas, Quezon
211. The Municipal Mayor
Candelaria, Quezon
212. LGU Legislative Body
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
215. The Municipal Mayor
San Antonio, Quezon
216. LGU Legislative Body
San Antonio, Quezon
217. The Municipal Mayor
Mauban, Quezon
218. LGU Legislative Body
Mauban, Quezon
219. The Municipal Mayor
Tiaong, Quezon
220. LGU Legislative Body
Tiaong, Quezon
221. The Municipal Mayor
Majayjay, Quezon
222. LGU Legislative Body
Majayjay, Quezon
223. The Municipal Mayor
Luisiana, Quezon
224. LGU Legislative Body
Luisiana, Quezon
225. The Municipal Mayor
Sto. Tomas, Batangas
226. LGU Legislative Body
Sto. Tomas, Batangas
227. The Municipal Mayor
San Pascual, Batangas
228. LGU Legislative Body
San Pascual, Batangas
229. The Municipal Mayor
Candaba, Pampanga
230. LGU Legislative Body
Candaba, Pampanga
231. The Municipal Mayor
San Simon, Pampanga
232. LGU Legislative Body
San Simon, Pampanga
233. The Municipal Mayor
Apalit, Pampanga
234. LGU Legislative Body
Apalit, Pampanga
235. Office of the Governor
Province of Rizal
236. LGU Legislative Body
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