

Republic of the Philippines Professional Regulation Commission Manila



PROFESSIONAL REGULATORY BOARD OF ELECTRICAL ENGINEERING Resolution No. <u>14</u> Series of 2024

GUIDELINES ON THE CREATION OF A CAREER PROGRESSION AND SPECIALIZATION PROGRAM FOR THE ADVANCED PROFESSIONAL ELECTRICAL ENGINEERING LEVEL 8

WHEREAS, Section 2 of Republic Act (R.A.) No. 10968 or the "Philippine Qualifications Framework (PQF) Act" states that it is the policy of the State to institutionalize the PQF to encourage lifelong learning of individuals, provide employee specific training standards and qualifications aligned with industry standards;

WHEREAS, Section 4 of R.A. No. 10968 states that a PQF shall be established which shall describe the levels of educational qualifications and set the standards for qualification outcomes. It is a quality assured national system for development, recognition and award of qualifications based on standards of knowledge, skills and values acquired in different ways and methods by learners and workers of the country;

WHEREAS, Section 5 (c) of the Implementing Rules and Regulations of R.A. No. 10968 provides that one of the objectives of the PQF is to align domestic qualification standards with the international qualifications framework thereby enhancing recognition of the value workers and professionals;

WHEREAS, Section 8 of R.A. No. 10968 states that PQF shall incorporate the qualifications level descriptors defined in terms of knowledge, skills and values, application, and degree of independence;

WHEREAS, Section 4 (a) of R.A. No. 10912 or the Continuing Professional Development (CPD) Act of 2016 states that there shall be formulated and implemented CPD Programs in each of the regulated professions in order to enhance and upgrade the competencies and qualifications of professionals for the practice of their professions pursuant to the PQF, the ASEAN Qualifications Reference Framework (AQRF) and the ASEAN Mutual Recognition Arrangements (ASEAN MRAs);

WHEREAS, Section 12, Article III of R. A. No. 10912 mandates the Professional Regulation Commission (PRC) and the Professional Regulatory Boards (PRBs) to formulate and implement a Career Progression and Specialization Program (CPSP) for every profession;

WHEREAS, Section 37 of R.A. No. 7920 or the "New Electrical Engineering" provides that the Certificates of specialty shall be issued by the Board, subject to the approval of the Commission, to professional electrical engineers who have been screened and recommended by the integrated and accredited electrical engineering association. These are for specific fields in which the applicants have specialized knowledge, training and experience and have demonstrated their competence and expertise. The Board shall, subject to the approval of the Commission, and after consultation with the said association, prescribe and issue the necessary guidelines for the issuance of these certificates;

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WHEREAS, the Professional Regulatory Board of Electrical Engineering (PRB-OEE) has issued Resolution No. 6 (s. 2021) or the Guidelines on the Creation of a Career Progression and Specialization Program (CPSP) for the Electrical Engineering Profession. This Resolution provides for the adoption of descriptor, professional qualification title and professional practice outcomes of the Professional Electrical Engineering Level 7;

WHEREAS, upon recommendation of the stakeholders' specialty group, there is a necessity for qualified professional electrical engineers with focused expertise to address specialized aspects of the industry and to associate the professional qualification title of the Professional Electrical Engineer (PEE) with international credentials, recognizing the Filipino PEE as equivalent with or comparable with their international counterparts;

WHEREAS, the PRB-OEE formulated and adopted the descriptor, professional qualification title and professional practice outcomes for the conferment of certificates of specialty for Advanced Professional Electrical Engineering Level 8 to address the Pathways and Equivalencies of PQF and which was subjected to various national consultations with the Professional Organizations, concerned national government agencies, academe, and industry;

WHEREAS, there is a need to adopt the descriptor, professional qualification title and professional practice outcomes to ensure the quality of professionals that will be conferred with the Certificate of Specialty;

NOW THEREFORE, the Professional Regulatory Board of Electrical Engineering hereby **RESOLVED**, as it now **RESOLVES**, to issue these Guidelines on the Creation of a Career Progression and Specialization Program for the Advanced Professional Electrical Engineering Level 8 with Certificate of Specialty equivalent to the Doctoral Degree in Electrical Engineering under the Philippine Qualifications Framework as follows:

Section 1. Definition of Terms

- Specialty Society or Organization refers to an organization composed of experts or specialists in a particular field of professional practice, duly registered with the Securities and Exchange Commission (SEC) which provides for a structured training program, modules with quality assurance assessment mechanism (e.g. Academy, Institute, Association or other similar import);
- ASEAN Qualifications Reference Framework (AQRF) is a common reference framework which functions as a device to enable comparisons of qualifications across ASEAN Member States¹;
- Career Progression in professional life is the process of developing or moving towards a more advanced state in a person's job, title, position, or profession; it outlines the route one may follow in order to reach identified career development goals²;

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¹Annex 2 (Glossary) of AQRF document

² Sec. 3 (c) of IRR of PQF Act

- 4. **Competence** refers to an ability that extends beyond the possession of knowledge and skills, which include cognitive, functional, personal and ethical competence³;
- Competency refers to the capability to apply or use a set of knowledge, skills and abilities required to successfully perform and implement critical work functions or tasks in a defined work setting⁴;
- 6. Equivalency refers to a process that involves assigning equivalent credits to the competencies demonstrated by a learner through assessment, thereby providing entry points to different levels of qualifications, the purpose of which is to provide opportunities to the learner to continue to learn and to re-enter the educational and training programs at various higher levels without retaking courses on which a learner has already demonstrated competence and knowledge⁵;
- 7. Learning Outcomes are clear statements of what a learner is expected to know, understand and/or do as a result of a learning experience⁶;
- Level Alignment Matrix of the Table of Specifications to the corresponding Policies, Standards and Guidelines and the PQF descriptors which serves as evidence of the Licensure Examination Quality Assurance system. It is also a requirement in the National Referencing Committee procedures for listing and updating of Professional Qualifications in the PhQuaR as issued/conferred by the PRC;
- Level Descriptor is a general statement that summarizes the learning outcomes appropriate to a specific level in the PQF grouped in domains of learning. It describes what an individual should be able to know, perform or demonstrate at a particular level⁷;
- Lifelong Learning refers to all learning activities whether formal, non-formal or informal, undertaken throughout life, which results in improving knowledge, knowhow, skills, competencies and/or qualifications for personal, social and/or professional reasons⁸;
- 11. Pathways refers to mechanisms or access ramps which provide access to qualifications and assist people to move easily and readily between the different education and training sectors and between these sectors and the labor market⁹ which includes professional work experience;
- 12. Philippine Qualifications Framework (PQF) describes the levels of educational qualifications and set the standards for qualification outcomes. It is a quality assured national system for the development, recognition and award qualifications based on

⁵Sec. 3 (d) of IRR of PQF Act

³ Sec. 3 (3.7), Rule I of PRC Resolution No. 1032, s. 2017 (Implementing Rules and Regulations of R.A. No. 10912, known as the Continuing Professional Development Act of 2016)

⁴ Sec. 3 (3.8), Rule I of PRC Resolution No. 1032, s. 2017 (Implementing Rules and Regulations of R.A. No. 10912, known as the Continuing Professional Development Act of 2016)

⁶Sec. 3 (h) of IRR of PQF Act

⁷Sec. 3 (i) of IRR of PQF Act ⁸Sec. 3 (j) of IRR of PQF Act

⁹Sec. 3 (I) of IRR of PQF Act

standards of knowledge, skills and values acquired in different ways and methods by learners and workers of the country¹⁰;

- 13. Philippine Qualifications Register (PhQuaR) is the national database of quality assured qualifications authorized under the PQF. It provides information to employers, education and training providers and students. The information includes the Qualification title, Qualification Descriptors, the PQF Level, the Authority granting Agency, the Qualification Code, the Instrument and Date of Authorization. It also includes information on the quality assurance system and procedures applied to the awarding/conferment of the qualifications and the agencies mandated to authorize/issue such qualification¹¹;
- 14. Practice of Electrical Engineering (Scope of practice of profession) embraces and consists of any work or activity relating to the application of electrical engineering sciences and/or principles such as but not limited to: Consultation, valuation, investigation and management services requiring electrical engineering knowledge; Engineering design and preparation of plans, specifications and estimates for electrical power systems, power plants, power distribution systems including power transformers, transmission lines and network protection, switchgear, building wiring, electrical machines, equipment and others; Management or supervision of erection, installation, alteration, testing and commissioning of power plants; substations, transmission lines, distribution lines, industrial plants and others; Management, supervision, operation, tending or maintenance of any electrical equipment, or processes in electrical work in power plants, industrial plants, watercraft, electric locomotives and others; Management or supervision of the manufacture repair of electrical equipment including switchboards, transformers, generators, apparatus and others; Teaching of electrical engineering professional subjects in government recognized and accredited engineering schools; Taking charge of the sale and distribution of electrical equipment and systems requiring engineering calculations or applications of engineering data; and Employment in government as a professional electrical engineer, registered electrical engineer, or registered master electrician if the nature and character of his work is in line with his profession requiring professional knowledge of the science of electrical engineering;
- 15. **Qualification** refers to a formal certification that a person has successfully achieved specific learning outcomes relevant to the identified academic, industry or community requirements. A qualification confers official recognition of value in the labor market and in further education and learning¹²;
- 16. Specialization refers to the field of practice of a profession for a particular area of knowledge or the process of becoming an expert in a particular field of professional practice.

¹⁰Sec. 4 of RA 10968 (PQF Act)

¹¹ https://pqf.gov.ph/PhQuaR

¹²Sec. 3 (m) of IRR of PQF Act

Section 2. Creation of Career Progression and Specialization Programs

a. Career Pathway/s – The Career Pathways of the Electrical Engineering profession is from Registered Electrical Engineering Practice (Level 6) to Professional Electrical Engineering Practice (Level 7) and to Advanced Professional Electrical Engineering Practice (Level 8) as diagrammed below.



- * Allied fields/Related fields Computer Engineering, Electronics Engineering, Mechanical Engineering, Civil Engineering, Chemical Engineering, Industrial Engineering, Computer Science and Information Technology.
- **Professional Electrical Engineers with Certificate of Specialty (PQF Level 8) is equivalent to a Doctoral Degree in Electrical Engineering as provided in Republic Act (R.A.) No. 10968 or the Philippine Qualifications Framework (PQF) Act.

b. Identification of Specialization Program/s

Initially, there will be eight (8) tracks of Career Progression and Specialization Programs to include but are not limited to the following:

- 1. Power System Planning
- 2. Power System Operation and Maintenance
- 3. Power System Protection and Control
- 4. Electrical System Design and Inspection
- 5. Electricity Market
- 6. Construction and Project Management of Electrical Facilities
- 7. Electrical Engineering Education and Research
- 8. Electrical Safety Engineering

c. Specialization Qualification Title and Descriptor

The Philippine Electrical Engineering Specialization as herein envisioned shall be governed by enabling Rules and Guidelines as prescribed and promulgated by the PRB-OEE in accordance with the provisions of the R.A. No. 7920¹³; and PRC Resolution No. 1117 (s. 2018)¹⁴.

1. Philippine Qualifications Register (PhQuaR)

Qualification Code	Qualification Title	Descriptor	Level	Authority Granting Agency
PEE 80713 - 1	Advanced Professional Electrical Engineering in Power System Planning	The practice of Advanced Professional Electrical Engineering with specialized field in Power System Planning embraces and consists of highly advanced knowledge of the scientific and engineering principles and skills in utilizing said principles for complex applications for power system planning while compliant to codes, regulatory and industry standards. The practice requires knowledge, skills, values, application and high degree of independence in performing load forecasting; analyzing impact of load modifications/additions and generator interconnections during normal and contingency conditions; performing volt/var studies; proficiency with the major provisions of the various laws, regulations governing electric utilities in relation with Power System Planning and the latest Philippine Grid Code (PGC) and Philippine Distribution Code (PDC); facilitating training and development of electrical engineers involving Power System Planning; translating the technical benefits of electric capital projects into financial indicators; managing consolidated electric capital project justifications and schedule for regulatory filing and approval; managing the implementation of regulator- approved electric capital projects; close coordination with real estate	8	PRC

¹³ The New Electrical Engineering Act (R.A. 7920)

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¹⁴ Formulation of Guidelines on the Creation and Implementation of a Career Progression and Specialization Program for the Regulated Professions

Qualification Code	Qualification Title	Descriptor	Level	Authority Granting Agency
		developers and with agencies involved in government infrastructures; managing project costs and budget submitted for regulatory filing and approval; analyzing the requirements for Power System Planning including but not limited to Power Systems Analyses, Reliability and Quality; and providing expertise as resource speaker/subject matter specialist in conferences involving Power System Planning and Power System Engineering.		
		The Specialty practice grants the authority to provide consulting services on Power System Planning, to sign and seal necessary electrical plans, drawings, permit construction, specifications, reports and other technical documents.		
PEE 80713 - 2	Advanced Professional Electrical Engineering in Power System Operation and Maintenance	The practice of Advanced Professional Electrical Engineering, with specialized field in Power System Operation and Maintenance embraces and consists of highly advanced knowledge, skills and values, in the principles of complex applications of power system operation and maintenance involving electrical facilities and equipment, preventive and predictive maintenance. The practice requires development of plant equipment operation and maintenance programs and policies; sets and develops operating procedures based on equipment technology requirement balanced against standard local and international safe practices and always indexed against current local and international industry codes and standards; and providing expertise as resource speaker/subject matter specialist in conferences involving Power System Operation and Maintenance. The Specialty practice grants the authority to provide consulting services on Power System Operation	8	PRC

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Qualification Code	Qualification Title	Descriptor	Level	Authority Granting Agency
		and Maintenance, to sign and seal necessary electrical plans, drawings, permit construction, specifications, reports and other technical documents.		
PEE 80713 - 3	Advanced Professional Electrical Engineering in Power System Protection and Control	The practice of Advanced Professional Electrical Engineering with specialized field in Power System Protection and Control embraces and consists of the highly advanced knowledge and skills in the design, construction, analysis, evaluation, trouble shooting, operation, maintenance and management of activities related to power system protection and control. The practice requires knowledge that covers in-depth expertise and high degree of independence, applying best practices that are aligned with both local and international standards, codes and regulatory mandates and other engineering principles and discipline, providing expertise as resource speaker/subject matter specialist in conferences involving Power System Protection and Control. The practice also requires knowledge in Engineering, Procurement & Construction (EPC) contract management and negotiation, relevant Philippine Laws and compliance with permitting and regulatory requirements and providing expertise as resource speaker/subject matter specialist in conferences involving Power System Protection and Control. The Specialty practice grants the authority to provide consulting services on Power System Protection and Control, to sign and seal necessary electrical plans, drawings, permit construction, specifications, reports and other technical documents.	8	PRC
PEE 80713 - 4	Advanced Professional Electrical	The practice of Advanced Professional Electrical Engineering	8	PRC

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Qualification Code	Qualification Title	Descriptor	Level	Authority Granting Agency
	Engineering in Electrical System Design and Inspection	with specialized field in Electrical System Design and Inspection embraces and consists of knowledge, skills, values, application and high degree of independence in analyzing and checking the feasibility of electrical systems; performing engineering calculations like transformer loading, conductor sizing, voltage drop, circuit breaker sizing, grounding/earthing systems design, grounding/earthing systems design, grounding/earthing systems design, grounding grid calculations, bus support calculations, and illumination; conducting failure analysis and recommending solutions; conducting research and technical writing and cost-benefit analysis/ feasibility studies of electrical systems; executing design analysis; supervising the conduct of power line and equipment design computations; managing Asset/Facilities Studies for the connection or interconnection of large load, grid-connected generators or embedded generators; analyzing research and data gathered on local and international codes, standards, and best practices relative to Electrical System Design and Inspection; recommending enhancements to the design, value engineering and inspection process; spearheading new concepts and innovations that will resolve electric design constraints and problems and will enhance capability and reliability of the electric facilities; interpreting the provisions of the latest Philippine Electrical Code, other national and international Standards such as ANSI, IEC in the preparation of design plans; facilitating trainings, seminars and development of Electrical Engineers involving Electrical System Design and Inspection; managing the preparation of design and documentation for electrical system projects, Underground (UG) facilities, managing various design experts/engineers to come up with an		

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Qualification Code	Qualification Title	Descriptor	Level	Authority Granting Agency
		integrated electrical project and providing expertise as resource speaker/subject matter expert in conferences involving Electrical System Design and Inspection.		
		Electrical System Design and Inspection is a core capability in Advanced Professional Electrical Engineering practice covering but not limited to Power generation, Transmission/Distribution Line Design, Buildings in High Rise, Commercial, Industrial and Institutions, Offshore, Watercrafts.		
		The practice also requires in-depth knowledge to evaluate and analyze the design and energy efficiency of the electrical system of a facility or structure to meet and fulfill the well- defined requirements of the project while in compliance with the established regulations, codes and standards. Multiple constraints are always present in any design project and as such, the engineer must be able to develop alternatives considering socioeconomic and environmental effects; assessing risk, reliability, operability, and operational safety; specifying quality assurance and using his advanced knowledge and skills in formulating the necessary plan of actions.		
		The practice requires to ascertain that the work being executed is in general conformance to the electrical design plans and specifications thru regular inspections during construction.		
		The Specialty practice grants the authority to provide consulting services on Electrical System Design and Inspection, to sign and seal necessary electrical plans, drawings, permit construction, specifications, reports and other technical documents.		

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Qualification Code	Qualification Title	Descriptor	Level	Authority Granting Agency
PEE 80713 - 5	Advanced Professional Electrical Engineering in Electricity Market	The practice of Advanced Professional Electrical Engineering, with specialized field in Electricity Market, consists of highly advanced knowledge and skills in the complex applications of power systems operations combined with electric utility economics. The trading of electricity encompasses demand- supply projections, real-time price clearing, generation dispatch, revenue metering and financial settlements employing specialized Information Technology. The practice requires a highly advanced degree of independence due to the multi-disciplinary nature of the processes involved in the trading and the rigorous rules and procedures which are subject to regulatory oversight and surveillance. The rules and procedures themselves are also subject to constant review and revisions since the market is continuously evolving. The practice also requires an in- depth working knowledge of applicable codes, regulations, rules and procedures which are subjected to constant review and revisions as the market evolves, acting as resource speaker or subject matter expert in conferences involving Electricity Market. The Specialty practice grants the authority to provide consulting services on Electricity Market, to sign and seal necessary reports and other technical documents.	8	PRC
PEE 80713 - 6	Advanced Professional Electrical Engineering in Construction and Project Management of Electrical Facilities	Professional Electrical Engineering with specialized field in Construction and Project Management of Electrical Facilities embraces and consists of the highly advanced knowledge and skills in the design, analysis, value engineering, construction, erection, testing and commissioning of the following: a) Low Voltages (LV),	8	PRC

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Qualification Code	Qualification Title	Descriptor	Level	Authority Granting Agency
		Medium Voltages (MV), High Voltages (HV), Extra High Voltages (EHV) systems, audit, inspection, project execution, materials, tools, equipment specifications, scheduling, staffing, construction safety and health protocols, utilization of instruments; tools & equipment, protection coordination, electrical quantity surveying; b) operation, maintenance and management of activities related to Construction and Project Management, the practice also requires an in-depth knowledge of applicable national & local regulatory mandates as well as national and international Codes and Standards in the construction industry accompanied with a high degree of analytical skills to perform safety and risk analysis;	Åte.	
		The practice also requires leading and coaching team members on Construction and Project Management; organizing and controlling project resources and execution; facilitating training and development of Electrical Engineers involving Construction and Project Management; identifying and formulating practical and innovative engineering solutions to complex problems during project implementation; interpreting and applying policies, guidelines and procedures in implementing the Construction and Project Management processes; rendering consultancy services to customer in relation to Construction and Project Management; providing expertise as resource speaker/subject matter specialist in conferences involving Construction and Project Management.		
		The practice also requires knowledge in Engineering, Procurement & Construction (EPC) contract management and negotiation, relevant Philippine Laws and		

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Qualification Code	Qualification Title	Descriptor	Level	Authority Granting Agency
		compliance with other regulatory requirements. i.e., Philippine Contractors Accreditation Board (PCAB); inventory processes and proper planning for storage and staging areas within the Project site; and interpreting approved Construction Plans & designs consistent with local, international Codes & Standards and other related standards during execution of the project.		
		The Specialty practice grants the authority to provide consulting services on Construction and Project Management of Electrical Facilities, to sign and seal necessary electrical plans, drawings, permit construction, specifications, reports and other technical documents.		
PEE 80713 - 7	Advanced Professional Electrical Engineering Education and Research	The practice of Advanced Professional Electrical Engineering in the field of Education and Research embraces and consists of the highly advanced knowledge and skills capable of conducting independent investigation and study, producing original contributions to the fundamental knowledge in the field of electrical engineering and undergoing an intensive program of study and research in exciting, cutting-edge areas of technology, and writing a dissertation documenting their journey and findings from their investigation through theories & principles, modern technology & application, and other related sciences, theories and principles. Research and development represent the bulk of practice in this specialty field that discusses theoretical and applied research methods, including descriptive, interpretative, and correlational techniques to gather, evaluate, and cite appropriate literature when writing research reports and scholarly papers. Research skills are applied to determine an experiment's feasibility,	8	PRC

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Qualification Code	Qualification Title	Descriptor	Level	Authority Granting Agency
		develop an implementation plan and providing expertise as resource speaker/subject matter specialist in conferences involving Electrical Engineering Education and Research.		
		The Specialty practice grants the authority to provide consulting services on Electrical Engineering Education and Research, to sign and seal necessary reports and other technical documents.		
PEE 80713 - 8	Advanced Professional Electrical Engineering in Electrical Safety Engineering	The practice of Advanced Professional Electrical Engineering with specialized field in Electrical Safety Engineering embraces and consists of the highly advanced knowledge, skills and values demonstrated in the application of electrical engineering knowledge combined with Philippine Electrical Codes and Occupational Safety and Health (OSH) principles. The practice requires relevant and appropriate applied sciences, electrical engineering / OSH principles and techniques in formulating process design and operational improvements in the field of Electrical Safety Engineering. It also pertains to the development of effective OSH policies, processes and programs to resolve Electrical Safety Engineering concerns and problems. Practice in this specialty expects initiatives in leading an industry or organization to advocate compliance with local and international safety standards and technical requirements (PEC, IEEE, DOLE OSHS, Fire Code of the Philippines, NFPA70E, etc.) as well as conducting investigations and audits, planning and technical studies on electrical safety engineering; advocacy in maintaining a good rapport and leadership with all levels of government and power industry regarding regulations that affect	8	PRC

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Qualification Code	Qualification Title	Descriptor	Level	Authority Granting Agency
		electrical safety engineering and the government's safety compliance standards; developing appropriate and effective policies, procedures, standards and programs that ensures the safe design, installation, operation and maintenance of electrical systems. Likewise, practice in this specialty involves working with technical organizations / committees / advocacy groups who develop relevant national laws, electrical safety engineering innovation / technologies and published technical studies for public safety and serves as electrical safety engineering subject matter expert. The Specialty practice grants the authority to provide consulting services on Electrical Safety Engineering, to sign and seal necessary electrical plans, drawings, permit construction, specifications, reports and other technical documents.		

2. PQF Level Alignment

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The qualification and professional practice outcomes of the abovementioned qualification titles in relation to the descriptors of PQF level 8 are shown in Annexes A, B, C, D, E, F, G and H.

This Resolution shall take effect after fifteen (15) days following its publication in the Official Gazette or in any major newspaper of general circulation in the country.

Let copies hereof be furnished the U.P. Law Center.

Done in the City of Manila this <u>22nd</u> day of <u>March</u>, 2024.

FRANCIS V. MAPILE Chairman

anne IE V. MENDO Member

(VACANT) Member

ATTESTED BY:

T. BAUTISTA

AT Chief PRO, PRB Secretariat Division

APPROVED:

CHAR TO A. ZAMORA chairperson

JOSE Y. CUETO, JR. Commissioner

ERWIN M. ENA Commissioner

Note: Attachment maybe downloaded at www.prc.gov.ph under PRB of Electrical Engineering Resolution. https://www.prc.gov.ph/electrical engineering

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