



Dirección Operación y Planeación del Sistema

Subdirección de Operación Gerencia de Control Regional Baja California Subgerencia de Planeación y Estrategia Operativa

Oficio No. CENACE/DOPS-SO-GCRBC-SPEO/006/2024

Mexicali, Baja California, Mexico February 19, 2024.

Subject: Centro Nacional de Control de Energia 2024 Annual Progress Report.

Mr. Doug Tucker WECC Staff Engineer 155 North 400 West, Suite 200 Salt Lake City, Utah 84103-1114

> Mr. Tom Carr Chair, WECC Studies Subcommittee

Dear Mr. Tucker and Mr. Carr,

In fulfilment of the WECC Progress Report Polices and Procedures for 2020, Centro Nacional de Control de Energia (CENACE) is pleased to share with you the 2024 Annual Progress Report:

1. All Generation projects (200 MW or greater).

- a. "PV Solar Plant Puerto Peñasco Phase 2", with a capacity of 300 MW, constructed in the Sonora Region, radially interconnected to Cucapah Station in the Baja California Region, projected for June 2024. This will increase renewable generation in Mexicali Zone.
- b. "Combined Cycle Gonzalez Ortega" with a capacity of 641 MW, connected in Mexicali Zone, projected for July 2025. This will give voltage support and increase generation capacity in Valley Region.
- c. "Combined Cycle San Luis Rio Colorado" with a capacity of 647 MW, connected in San Luis Zone, projected for July 2025. This will give voltage support in the San Luis Zone and increase generation capacity in CENACE system.

2. New and upgraded transmission facilities with voltage levels over 200 kV.

a. "PV Solar Plant Puerto Peñasco Phase 2 Interconnection Project", projected for April, 2024. Consisting of a new Cucapah Substation with 400/230 kV transformer with capacity of 375 MVA, new Maniobras Santa Clara Substation, new Puerto Peñasco Fotovoltaico Substation and "PV Solar Plant Puerto Peñasco Phase 2" (1.a). Cucapah Substation will be connected between existing 230 kV transmission lines Centenario to Sanchez Taboada and Wisteria to Cerro Prieto Dos and in addition will connected new 400 kV transmission line to new Maniobras Santa Clara Substation. Maniobras Santa Clara will connected new 400 kV transmission line to new Puerto Peñasco Fotovoltaico Substation.

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- b. "Combined Cycle Gonzalez Ortega Interconnection Project", projected for July, 2025. Consisting of Maniobras Gonzalez Ortega 161 kV Substation, Maniobras Gonzalez Ortega 230 kV Substation, looping of existing transmission line from Mexicali Oriente to Cerro Prieto IV at 161 kV into existing Gonzalez Ortega Substation at 161 kV, two new 230 kV transmission lines between La Rosita to La Herradura and La Herradura to Tijuana and "Combined Cycle Gonzalez Ortega" (1.b). Maniobras Gonzalez Ortega 161 kV Substation will be connected between existing 161 kV transmission lines Ruiz Cortines to Gonzalez Ortega and Mexicali II to Gonzalez Ortega. Maniobras Gonzalez Ortega 230 kV Substation will be connected between existing 230 kV transmission lines Aeropuerto Dos to Cerro Prieto Tres and Sanchez Taboada to Valle de Puebla.
- c. "Combined Cycle San Luis Rio Colorado Interconnection Project", projected for July, 2025. Consisting of Ejido San Luis 230 kV Substation, new 230/161 kV transformer with capacity of 225 MVA at Ruiz Cortines Substation, relocation of transformer PID AT20 with capacity of 225 MVA to Ruiz Cortines Substation, new 230/13.8 kV transformer with capacity of 40 MVA at Parque Industrial Substation, new transmission line Sanchez Taboada to Cerro Prieto II at 230 kV, transmission line Ruiz Cortines to Cerro Prieto I at 161 kV change to Ruiz Cortines to Cerro Prieto III at 230 kV, transmission line Ruiz Cortines to Parque Industrial at 161 kV change to 230 kV, transmission line Parque Industrial to Hidalgo at 161 kV change to Parque Industrial to Ruiz Cortines at 230 kV and Ruiz Cortines to Hidalgo at 161 kV, looping of transmission line Parque Industrial to Ruiz Cortines at 230 kV into existing CCI Parque Industrial Substation and "Combined Cycle San Luis Rio Colorado" (1.c). Ejido San Luis 230 kV Substation 230 kV Substation and San Luis Rey to Parque Industrial.
- d. New 230/115/69 kV transformer "Tijuana I Bank 4" with capacity of 225 MVA at existing Tijuana I Substation, projected for December, 2024. This will increase serving capacity from 230 kV to the 69 kV network at the Tijuana Zone.
- e. New 230/115/69 kV transformer "Panamericana Potencia Bank 3" with capacity of 225 MVA at existing Panamericana Potencia Substation, projected for December, 2024. This will increase serving capacity from 230 kV to the 69 kV network at the Tijuana Zone.
- f. New 230/115/69 kV transformer "Panamericana Potencia Bank 4" with capacity of 225 MVA at existing Panamericana Potencia Substation, projected for April, 2025. This will increase serving capacity from 230 kV to the 69 kV network at the Tijuana Zone.
- g. New "Victoria 230 kV Substation" radially connected from the actual Chapultepec 230 kV Substation, at San Luis Rio Colorado Zone, projected for June, 2025. This will increase distribution serving load services.
- h. New "Libramiento 230 kV Substation" at San Luis Rio Colorado Zone, projected for December, 2025. This will be connected as a switchyard between existing transmission line from San Luis Rey to Parque Industrial at 230 kV voltage level.



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- i. Looping of existing Cerro Prieto Dos to San Luis Rey transmission line at 230 kV level into Chapultepec 230 kV Substation, projected for July, 2027. This will give voltage support to the San Luis Rio Colorado Zone.
- j. "Arrajal Project", projected for February, 2028. Consisting of a new Arrajal Substation with a 230/115 kV transformer with capacity of 100 MVA at the Ensenada Zone, with new 230 kV transmission line from Ensenada to Mexicali Zone. This will increase voltage support at the Ensenada Zone, as well as transmission capacity.
- k. New 230/115 kV transformer "Lomas Bank 3" with capacity of 100 MVA at existing Lomas Station, projected for April, 2028.
- I. New 230/115/69 kV transformer "Tijuana I Bank 5" with capacity of 225 MVA at existing Tijuana I Substation, projected for April, 2028. This will increase serving capacity from 230 kV to the 69 kV network at the Tijuana Zone.
- m. New 230/115/69 kV transformer "Metropoli Potencia Bank 5" with capacity of 225 MVA at existing Metropoli Potencia Station, projected for December, 2028. This will increase serving capacity from 230 kV to the 69 kV network at the Tijuana Zone.

3. Any facilities that may have a significant impact on the reliability of the Western Interconnection.

- a. New "Encantada 69 kV Substation" at Tijuana Zone, projected for December, 2024. This will be connected as a switchyard between existing transmission line from Metropoli Potencia to Tijuana I at 69 kV voltage level.
- b. New "Paredones Potencia 161 kV Substation" at San Luis Rio Colorado Zone, projected for April, 2025. This will be connected as a switchyard between existing transmission line from Gonzalez Ortega to Ruiz Cortines at 161 kV voltage level.
- c. New "Valle Potencia 230 kV Substation" at San Luis Rio Colorado Zone, projected for April, 2025. This will be connected as a switchyard between existing transmission line from Ruiz Cortines to Parque Industrial at 230 kV voltage level.
- d. Looping of existing transmission line from Cipres to Cañon at 115 kV into existing Maneadero Substation at 115 kV, projected for June, 2027 This will give voltage support to the Ensenada Zone.
- e. Looping of existing transmission line from Cardenas to Guerrero at 69 kV into existing Rubi 69 kV Substation, projected for August, 2027. This will increase load serving capacity in Tijuana Zone.
- f. Looping of existing transmission line from Industrial to Universidad at 69 kV level into existing Frontera Substation at 69 kV, projected for August, 2027. This will increase voltage support and serving load capacity in Tijuana Zone.
- g. New STATCOM +30/-30 MVARs at existing San Quintin 115 kV Substation to increase reactive power support in Ensenada Zone, projected for April, 2028.



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- h. New "Alamar 69 kV Substation" at Tijuana Zone, projected for August, 2028. This will be connected as a switchyard between existing transmission line from Tijuana I to Frontera at 69 kV voltage level.
- i. New "Valle Dorado 115 kV Substation" at Ensenada Zone, projected for June, 2029. This will be connected as a switchyard between existing transmission line from Cipres to Cementos California at 115 kV voltage level.
- j. New "Toreo 69 kV Substation" at Tijuana Zone, projected for August, 2031. This will be connected as a switchyard between existing transmission line from Guerrero to Rio at 69 kV voltage level.

Should you have any questions or comments, please don't hesitate to ask.

Sincerely,

HABLEZ

Noe Cruz Ramirez Transmission Planning and Operations Assisting Manager CENTRO NACIONAL DE CONTROL DE ENERGIA (CENACE)

