Transmission Planning

Attachment K Public Input

Meeting Minutes

FERC Order 1000(890) Q3

Biennial Cycle 2016-2017

September 29, 2016

Attendees: Jamie Austin – Transmission Services

Mark Adams – Transmission Planning East

Adam Lint – Area Planning West

Sachith Abayakoon – Transmission Planning East

Nicole DeGiulio – Transmission Planning East

Carlton Jones – Transmission Planning

Jeremy Viula – Transmission Planning

Patience Kerchinsky – Transmission Services

Fang Fang Du – Transmission Planning

Brett Allsup – PacifiCorp Transmission

Peter Jones

Anastasia Belesiotis – Scribe

Marshall Empey – UAMPS

* Jamie Austin reviews the Attachment K process, Transmission System Plan outline, and economic planning study process, and any possible focus group activities.
* Economic studies identify significant and recurring congestion on the system. Stakeholders can submit requests during Q1 and Q5; no requests were submitted in Q1.
* Q3 technical studies are performed to determine system inadequacies.
* Peter Jones provides PacifiCorp West five year study updates:
  + Crescent City study has no progress since last quarter
  + Pendleton/Hermistion study is at 85% completion
  + Dalreed/Arlington/Sherman is nearing 40% complete
  + North Oregon Coast is about 50% complete
  + Yakima has not had any progress since last quarter
  + Roseburg study has recently kicked off and is at 5% completion
* Mark Adams provides PacifiCorp West five year studies:
  + Grey, Price, and Smithfield studies completed in August
  + Sigurd, Wyoming, Utah and Vernal studies have studies underway, about 50% completing with end of year completion
  + Park city/Midway, North Salt Lake, Tooele, Big Horn, Wyoming West, and Salt Lake Valley studies scheduled for 2017.
* Brett Allsup presents NERC TPL-001-4 Standards:
  + In 2006 FERC certified NERC as the Electric Reliability Organization;
  + In 2007 FERC issued Order 693 approving 83 of 107 reliability standards.
  + Reliability standards are the planning and operating rules that electric utilities follow to ensure system reliability
  + NERC has eight Regional Entities across the US and Canada responsible for compliance monitoring and enforcement of the standards
  + The NERC RE’s are WECC, MRO, SPP, TRE, NPCC, RFC, SERC and FRCC
  + NERC standard TPL-001-4 refers to Transmission System Planning Performance requirements; it became fully effective and enforceable on January 1, 2016.
  + PacifiCorp is one of the first utilities in the industry to adopt the standard
  + PacifiCorp’s 2015 Planning Assessment identified 29 corrective plans (projects) out of over 511,000 contingency studies performed, identifying 33 deficiencies.
* Adam Lint presents North Oregon coast studies;
  + Service are is divided into 17 study areas, divided into two areas, Clatsop (Astoria to Tillamook), and the Lincoln City Area (Tillamook to Lincoln City)
  + The study is expected to be completed later this year and presented at Q4 meeting.
* Jamie asks if wind projects are studied on the Oregon Coast. Adam responds that there is no generation in the area currently.
* Scott Murdock presents the Grace Idaho Study findings:
  + The study area covers 1,030 square miles
  + Main sources are Grace and 3 Mile Knoll, with 26 substations, and 14 of those are customer owned
  + Base system loads are 2016 summer 276 MW (80% industrial) and winter 2016-2017 271 MW; grown is 1.1% for summer and 1.5% for winter. Projected system loads are 289 MW for summer 2020 and 288 MW for winter 2020-2021
  + 3 circuit breakers at Grace and Bancroft are recommended for replacement, as well as several switches, with total construction cost of approximately $1.2M
  + Marshall Empey asks if the BPA Super Springs line at 3 Mile Knoll will have any impact or changes; Mark Adams does not anticipate significant impact.
* Carlton Jones presents Smithfield/Preston study:
  + The area covers 450 square miles in Utah and Idaho
  + The main sources are Treasureton, Wheelon and Bridgerland, with generation from Oneida, Preston and Mink Creek. The area includes 23 substation, 3 being customer owned, and mostly residential.
  + Base loads growth is approximately 2% for both winter and summer. Projected system peaks are projected at 279 MVA for summer and 199 MVA for winter, with a distribution capacity of 180 MVA.
  + Tap at Franklin substation have been changed for voltage issues.
  + At Hyrum the line will be moved off the bus to the Nibley line.
  + Lewiston substation will upgrade transformer
  + Circuit breakers at Treasureton will be upgraded, as well as switches at Lewiston.
  + Total construction costs projected at $2.98M
  + Marshall Empey asks if Hyrum has been informed of proposed work. Mark Adams suggests Marshall make contact with someone at Hyrum.
* Nicole DeGiulio presents findings for Price Utah area:
  + The area covers 5,200 square miles
  + Main sources are Huntington and Hunter, with approximately 60 substations, half being customer owned
  + Base load for summer is 130 MW and winter is 131 MW. Average summer growth is 1.3% and winter 1.1%, with a projection of system load for summer 2020 at 149 MW and winter 2020-21 at 146 MW.
  + Scofield Reservoir needs to be upgraded b installing a .5 MVA pole mount substation.
  + At Helper installing new breakers is recommended.
  + Total project costs estimated at $8.5M.
  + Marshall Empey states that Helper City is now a UAMPS member.
* Jeremy Viula kicks off Tooele study:
  + The area covers 800 square miles in Tooele County, and has two sources – Terminal and Oquirrh.
  + There are 32 substations, 14 of which are customer owned
* Nicole DeGiulio presents the Southeast Utah Study:
  + The study area covers 6,500 square miles in Grand and San Juan counties, and serves Navaho Tribal Utility Authority
  + There are 31 substations, 14 of which are customer owned
  + Study will concentrate mainly on the 138 kV system
* Sachith Abayakoon presents the North Salt Lake County study:
  + The area covers 67 square miles in the southern part of Davis and northern Salt Lake counties
  + The main sources are Terminal, Parrish, Gadsby and Jordan, with municipalities of Kaysville and Bountiful
  + There are approximately 29 substations, 12 of which are customer owned.