Transmission Planning

Attachment K Public Input

Meeting Minutes

FERC 890 Q2

June 12, 2014

Attendees: Jamie Austin

Lori Adams

JD Podlesnik

Larry Frick

Brian Fritz

Dennis Yegorov

Patience Kerchinsky

Peter Jones

Mark Adams

Dave Hagen

Dan Yokota - BPA

Gayle MacKenzie – Scribe

* Welcome attendees and guest- Jamie Austin
* Explain the planning process – Jamie Austin
  + Finalized methodology/planning criteria/process used
    - Coordinate with other processes on reliability
      * TPL transmission planning studies
      * Five year area studies
      * Generator interconnection studies
  + PacifiCorp to review with stakeholders the status of 5-year studies as they become available
  + Stakeholders can submit study requests through OASIS process
    - No study requests submitted in Q1
    - Next time study request to be submitted is Q5
  + Eight Quarter Process for PacifiCorp
    - Year 1 – 2014
      * Q1 Jan-Mar ~ Data collection for economic studies
      * Q2 Apr-Jun ~ Reference case development
      * Q3 Jul-Sep ~ Economic studies to identify congestion
      * Q4 Oct-Dec ~ Draft reporting
    - Year 2 – 2015
      * Q5 Jan – Mar ~ Draft report on system adequacy
        + Data collection for re-study
      * Q6 Apr – Jun ~ Draft re-study report review
      * Q7 Jul – Sep ~ Final report and review
      * Q8 Oct – Dec ~ Final transmission plan approval
* Generator Interconnection Requests – Brian Fritz
  + Generator interconnection requests
    - Nearly 600 applications in 2004
    - 106 actual projects completed
  + Generator interconnection requests by size and year
  + Interconnect requests by type and year
    - 2003 – 100% wind; no solar
    - 2013 & 2014 – 80% solar requests; 5% wind
      * The majority in Southern Utah follow FERC process
* Local Area Studies Update – PACW – Larry Frick
  + Yreka
    - 85% complete
      * Progress delayed by compliance-related activities
  + Crescent City & Grants Pass
    - 65% complete
      * Study progressing
  + 41 months average study length - PACW
    - Normal is 36 months
* Local Area Studies Update – PacifiCorp East – Mark Adams
  + Studies
    - Ogden – Q2 2014 complete
    - Utah (Southwest) – Q2 2014 complete
    - Goshen – Q3 2014 – complete
    - Nebo – Q2 2014 complete
    - Utah Valley – Q3 2014 complete
  + Also scheduled in 2014
    - Honeyville/Malad
    - Powder River
    - Pavant
    - Smithfield
    - Montpelier
  + 48 months average study length
    - Goal is 36 months
      * 4 years ago the normal was 24 months
        + Caused by decrease in planning engineers
* Yreka Area Study – Dennis Yegorov
  + Study area covers
    - Yreka
    - Shasta Valley
      * Montague
      * Rural areas
    - Lower Klamath River
      * Hornbrook
      * Happy Camp
    - Scott Valley
      * Fort Jones
      * Etna
    - Weed
  + Southern Part of the study area
    - Mount Shasta
    - Sacramento Canyon
      * McCloud
      * Dunsmuir
      * Rural areas south
  + Yreka has 8 ties to other systems
    - Medford (2)
    - Klamath Falls (3)
    - Cave Junction (1)
    - Pacific Gas & Electric’s system in Cottonwood area (2)
  + Study area is served by 35 substation
    - 9 transmission substations/switching stations
    - 26 distribution substations
  + Local generation within study area
    - Six hydroelectric plants
    - Customer-owned steam turbine generator in Weed
  + Base System Loads (coincidental)
    - Summer 2014 – 94 MW
      * Growth rate 0.4%
    - Winter 2014-2015 – 110 MW
      * Growth rate 0.4%
  + Projected system loads (coincidental)
    - Summer 2018 96 MW
    - Winter 2019-2019 113 MW
  + Distribution Substation Capacity
    - Summer 162.8 MVA
    - Winter 204.0 MVA
  + Distribution Substation Utilization Factor
    - Summer 2014 62.5%
    - Winter 2014-2015 56.0%
  + Transmission System Losses
    - 6-7% of area load during peak load periods
  + 6 Planned System Improvements
    - Four near-term planning horizon (years 1 through 5)
      * Weed 115-69kV LTC transformer
        + In service winter 2015 - 2016
      * Yreka 115-69kV LTC transformer
        + In service 2016
      * 2nd Yreka – Greenhorn 69kV line
        + In service 2017
      * Lassen distribution substation
        + In service 2017 (depending on load growth)
    - Two long-range planning horizon (beyond 5 years)
      * 69kV line 2 conversion to 115kV
        + Phase 1 – Weed Junction – Lassen Segment

Project timing depends on future load development in Mount Shasta area

* + - * + Phase 2 – Copco – Weed Junction segment

Timing driven by future load development in Yreka, Weed and Mount Shasta area

* Contact information – Link to PacifiCorp OASIS
  + <http://www.oasis.oati.com/ppw/index.html>
* For Attachment K related comments/questions, address your requests to
  + [TransmissionPlanningProposal@PacifiCorp.com](mailto:TransmissionPlanningProposal@PacifiCorp.com)
* Next meeting late September 2014
* Meeting adjourned