



Bonneville Power Administration Site Briefing

DOE Information Management Conference

Steven Golisch

April 19, 2012

BPA Mission

- **The Bonneville Power Administration's mission as a public service organization is to create and deliver the best value for our customers and constituents as we act in concert with others to assure the Pacific Northwest:**

BPA Mission

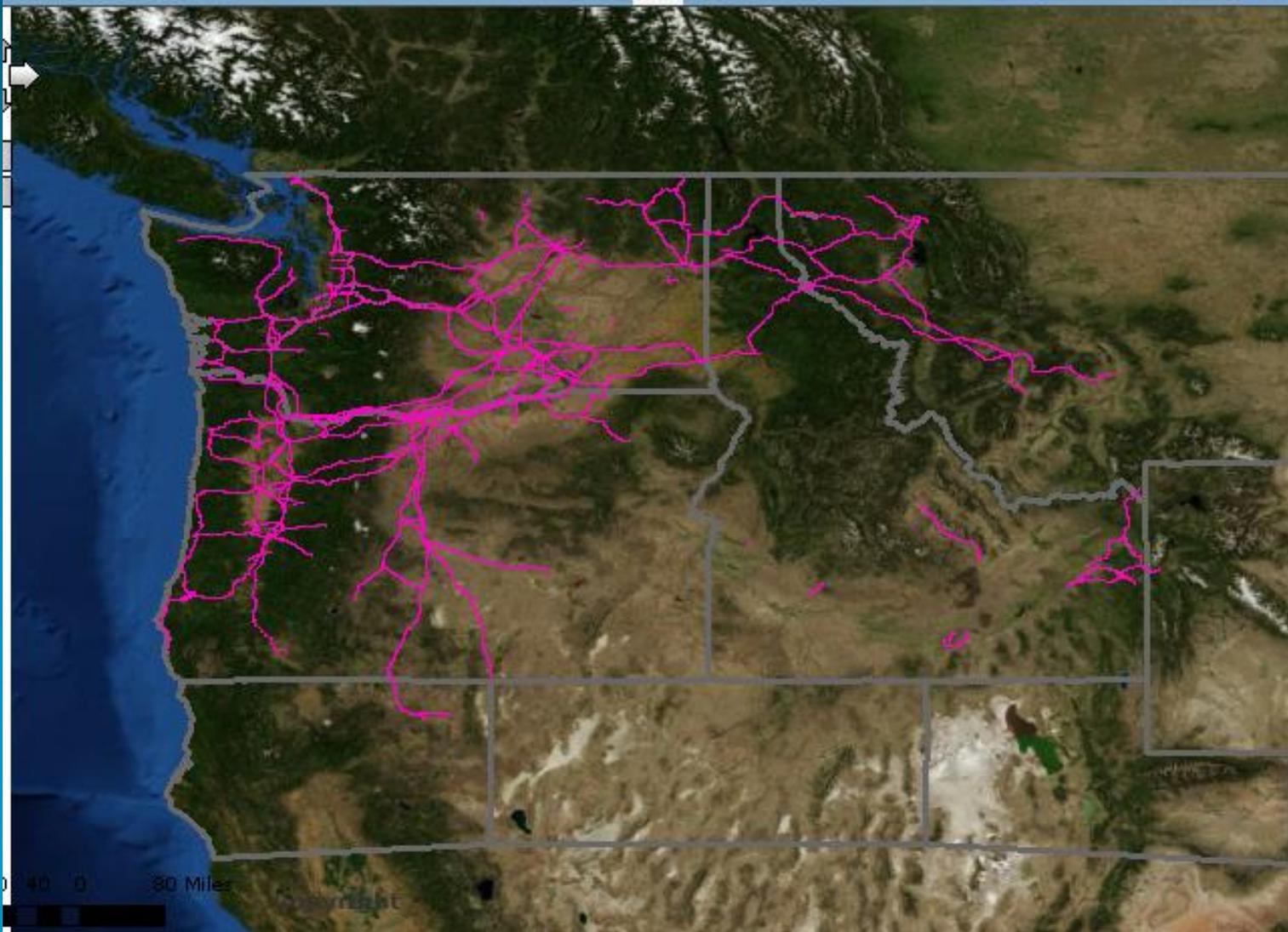
- *An adequate, efficient, economical and reliable power supply;**
- *A transmission system that is adequate to the task of integrating and transmitting power from federal and non-federal generating units, providing service to BPA's customers, providing interregional interconnections, and maintaining electrical reliability and stability;**

BPA Mission

***Mitigation of the Federal Columbia River Power System's impacts on fish life.**

BPA is committed to cost-based rates, and public and regional preference in it's marketing of power. BPA will set its rates as low as possible consistent with sound business principles and the full recovery of all of its costs, including timely repayment of the federal investment in the system.

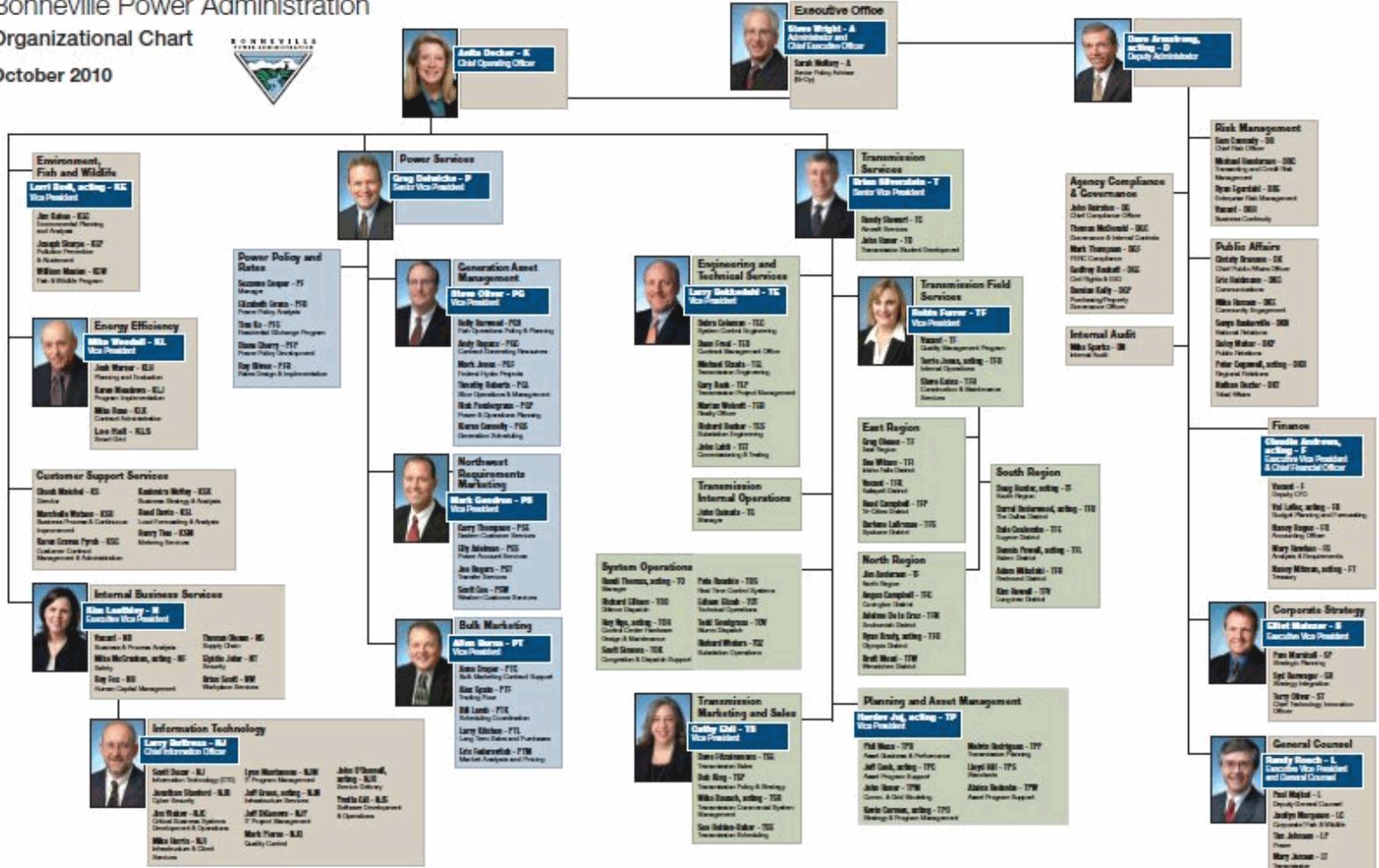
Pacific North West Service Area



Organizational Chart



Bonneville Power Administration
Organizational Chart
October 2010



Organizational Chart



Engineering and Technical Services

Larry Bekkedahl - TE
Vice President

Mike Miller - TEC
System Control Engineering

Joelle Brown – TECT
Telecom Engineering
– Frequency Management Spectrum Group

Personnel Summary

- Number of Federal Employees: 3100
- Number of Contractor Employees: 1400
- Frequency management: 4
- Retention/Acquisition Issues: none

Spectrum Use

Government Owned Systems

Key BPA Users - Operations , Construction and Maintenance

- Land Mobile Radio (LMR)
- Conventional Analog 12.5Khz Bandwidth
 - Band(s) of Operation: Federal VHF Band
 - Number of Mobiles: 1000+
 - Number of Portables: 900+
 - Number of Base Stations: 72
 - Number of Repeaters: 65

Spectrum Use Government Owned Systems

- Each system has 5 to 11 repeater/remote base sites
- 9 separate systems covering 9 regions
- Each system can be controlled from:
- BPA Mobile Radio Network
 - 2 Dispatch Consoles
 - Field Location key telephone connection
- Each system's sites are connected via a party line trunk channel

Spectrum Use

Government Owned Systems

- Microwave Radio Systems

Band(s) of Operation: 2, 4, 6, 7/8, 10 GHz

Number of Links: 46, 198, 6, 884, 4 LINKS

Total Number of Links: 1138

- UHF Radio Systems

Band(s) of Operation: 400, 900 MHz

Total Number of Links: 18 118

3G Status

>90% Complete

On Target for March 2013
Completion Date

NTIA Activity 2011 Summary

Number of New Band and Equipment Details

- Number of Frequencies Required for 4/5 GHz **7**
 - Number Requested from NTIA **7**

- Number of Frequencies Required for 7/8 GHz **62**
 - Number Requested from NTIA **62**

- Number of Frequencies Required for 900MHz **10**
 - Number Requested From NTIA **10**

Equipment Refresh Plans

- Equipment Type:
 - NEC 7/8 Analog M/W Radio
 - Harris Megastar Digital M/W Radio
 - NEC 3000 4/5 & 7/8
 - Alcatel 8500 4/5 & 7/8
 - Master II VHF LMR
- Years Already in Service:
 - NEC Analog 20+ years
 - NEC 3000 4/5 & 7/8 8+ years
 - Master II VHF LMR 25+ years
- Projected Timeframe for Replacement (if known)
 - Analog M/W replacement completed 2025
 - LMR VHF 2018

Major Projects

- Replacement of Analog Microwave Radios
- Replacement of VHF LMR System
- Creation of an HF communications system to support COOP plans.

BPA

Questions?