

# Applicants' Witness Ray Wahle

Power Supply & Operations Director  
Missouri River Energy Services (MRES)

## Summary

Applicants' Exhibits 3 and 41



# MRES - Summary

- 60 Members
  - Cavalier, N.D. to Fontanelle, IA and Faith, S.D. to Hutchinson, MN
  - Largest: Moorhead, MN – population 32,200
  - Smallest: Pickstown, SD – population 168
  - Average Population: 4,100
- Number of meters: 120,000
- MRES and members not rate-regulated by SDPUC
- 13-member Board of Directors elected from the membership
  - Sets strategic direction
  - Approves the budget
  - Sets rates

# Direct Testimony - Summary

- **Benefits of BSP II**
  - Meet member demand
  - Dispatchable
  - Can provide ancillary transmission service
    - VAR support
    - Regulation
    - Load following
  - Baseload generation
  - In the MISO market
  - Own resource and hedge against high market costs
  - Elimination of pan-caked transmission and losses
  - Provides hedge on congestion & losses



# Rebuttal - Summary

- Big Stone Unit II versus 1,320 MW of wind (Goldberg testimony)
  - Mr. Goldberg assumed this amount of wind to provide, on average, a similar amount of energy on an annual basis
  - Electricity energy cannot be stored
  - Different accredited capability
    - 600 MW for BSP II
    - 66 MW to 238 MW for 1,320 MW of wind turbines
  - Wind is not dispatchable
  - Wind cannot provide ancillary services
- MRES plans to enact wind development; but it is not a substitute for Big Stone Unit II