

ALASKA VILLAGE ELECTRIC COOPERATIVE

Energizing Rural Alaska since 1968

CAPACITY ASSESSMENT FOR NEW MEMBER VILLAGE

ALASKA FORUM ON THE ENVIRONMENT

FEBRUARY 9, 2017

**Forest Button, Project Development
Alaska Village Electric Cooperative**

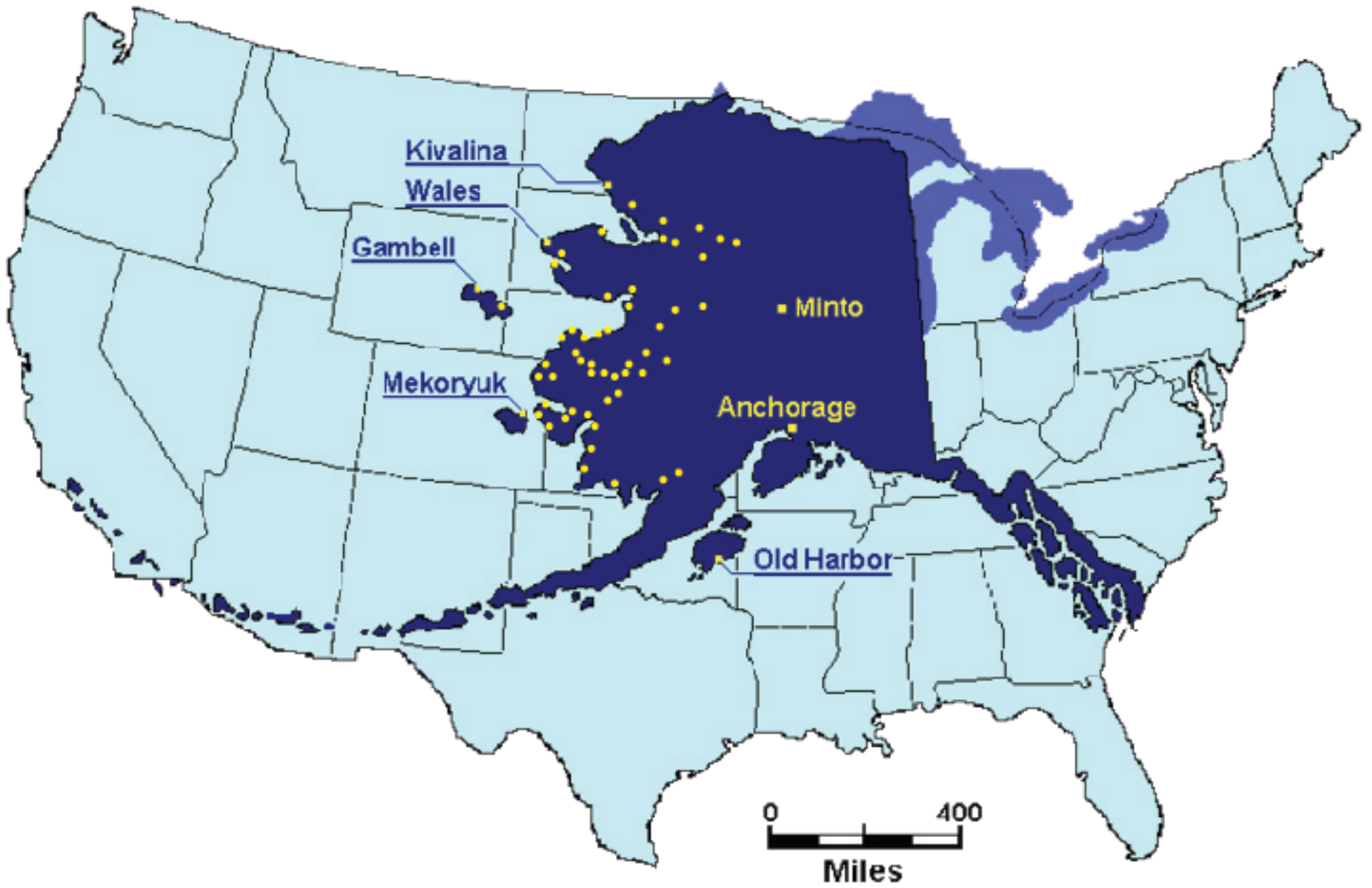


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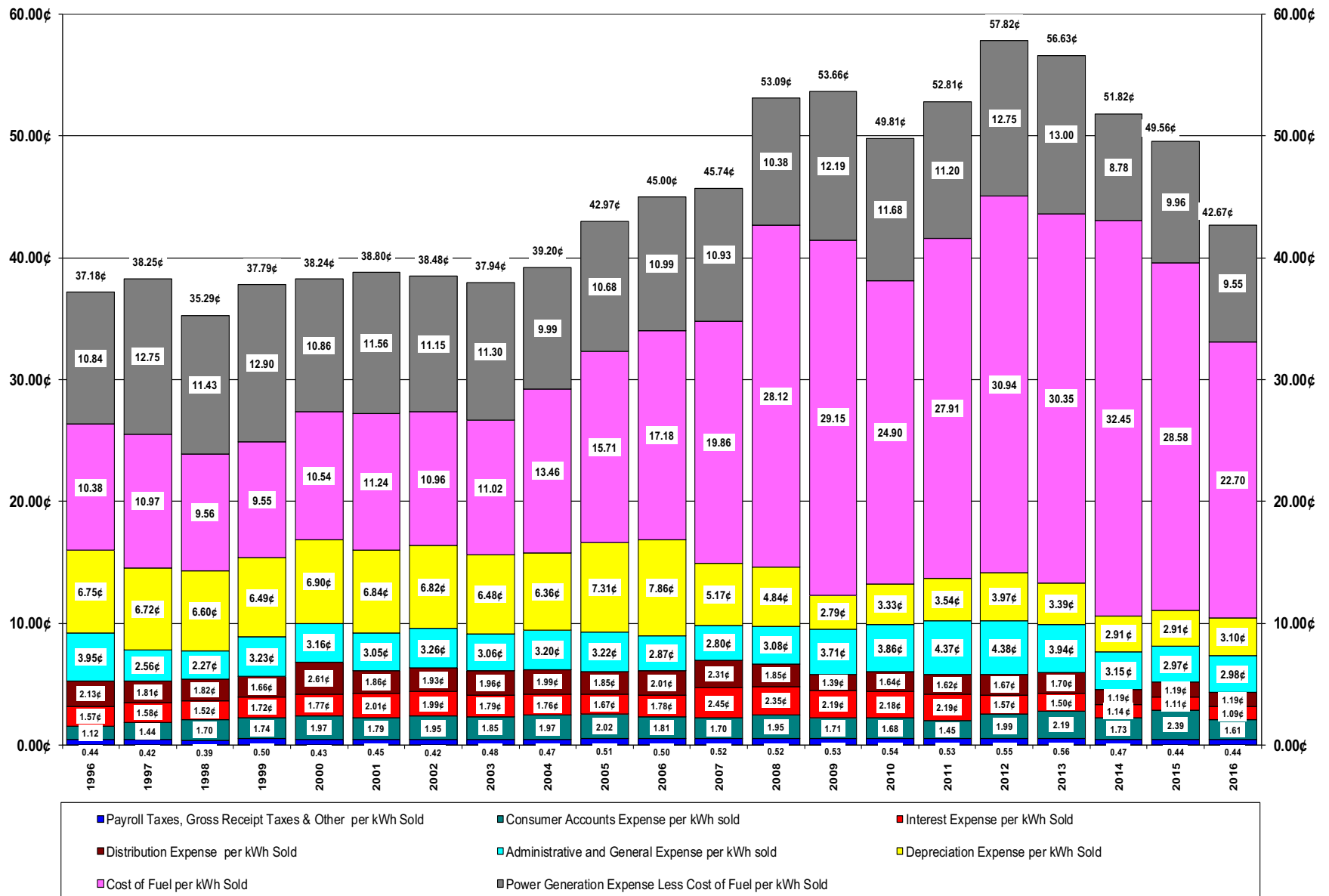
Member owned, not-for-profit

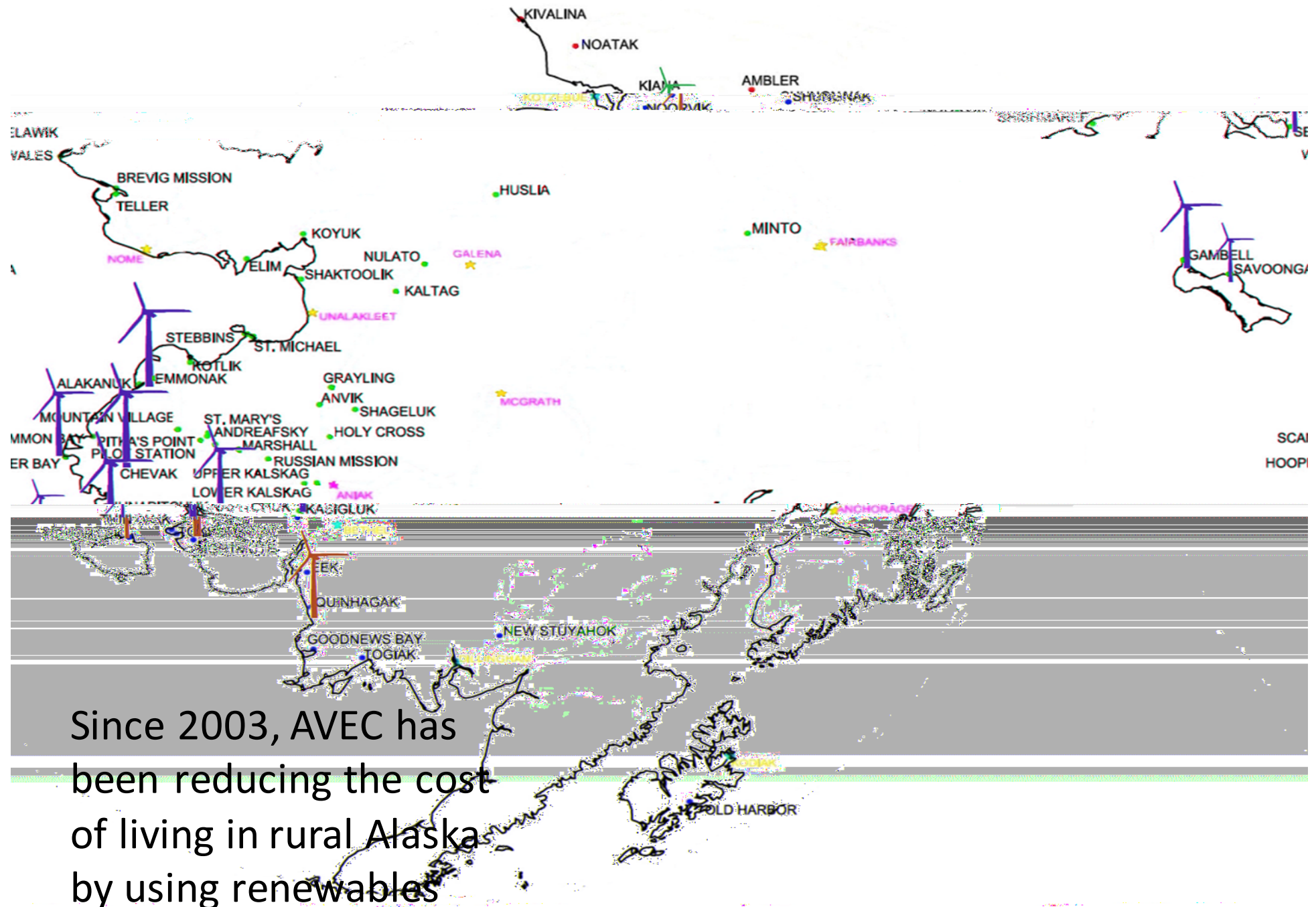
57 Alaska communities
90 full time employees
95 village plant operators
10,800 services
49 power plants
170+ diesel generators
500+ fuel tanks
8.5 million gallons of diesel
34 wind turbines serving 15 villages
2 Solar PV projects in Kaltag and Noorvik
Two tug and barge sets





Alaska Village Electric Cost Components per Kilowatt-hour Sold





Since 2003, AVEC has been reducing the cost of living in rural Alaska by using renewables

Considering a New Community

- ✓ Physical condition of the facility
- ✓ What exactly AVEC is asked to acquire
- ✓ Will the community pay for itself

- Average Community = Cost \$325,000 for M&O
- Sales = 1,300,000 kWh \$0.25 breakeven \$0.27 minimum
- Minimum Community = \$200,000
- Sales = 800 kWh

Human Capacity

Power Plan Operators – 95

Wind Technicians – 2

Dedicated Operator Trainer

AVTEC



Renewables

Current: 34 Wind turbines 3.26 Megawatt
 2 solar 33 kilowatt

2018: 2 Wind turbines 1.8 Megawatt

Thank You!



Forest Button
Project Development

Alaska Village Electric Cooperative

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