



The Solutions Network

Rochester, New York

Red Obstruction Lights

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LED v. Incandescent

LED Steady State

- 12.5 watts/light
- Annual Energy Consumption:
 - 60.125kWh of energy
- First year total cost: \$212.51
 - Operating cost - \$6.01
 - Bulb cost - \$195.00
 - Installation cost - \$11.50
- Each year 2-10 cost: \$6.01
- 10-Year Cost: \$266.66

Incandescent Steady State

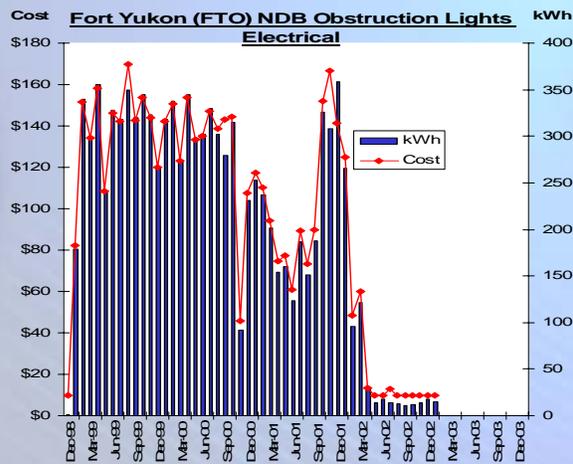
- 116 watts/light
- Annual Energy Consumption:
 - 557.96kWh of energy
- First year total cost: \$158.30
 - Operating cost - \$55.80
 - Bulb cost - \$100.00
 - Installation cost - \$2.50
- Each year 2-10 cost: \$158.30
- 10-Year cost: \$1,583

August 8-11, 2004

www.energy2004.ce.doe.gov



FTO NDB in Fort Yukon



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Red Obstruction Lights

- 20,000 obstruction lights in the NAS
- 3000 LED installed
- AAF-1 direction: Buy only LEDs
- LED lights are rugged and efficient
- 90 percent less energy
- 10 times longer life
- Reduced maintenance burden
- Full implementation will save \$7,500 daily, \$2.5M annually in energy costs
- Log Center “buy” of 9,000 for “free issue”

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Persevere

- ❖ “Sell” benefits
- ❖ Establish a “formal” requirement
- ❖ Secure funding
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- ❖ “Commercialize” adoption
- ❖ Work the loose ends

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