QUARTERLY TECHNICAL PROGRESS REPORT:
WIND-FUEL CELL HYBRID PROJECT IN RURAL ALASKA

For The Period April 1 – June 30, 2000

David Lockard

ALASKA DIVISION OF ENERGY

REPORT DATE: July 28, 2000

PREPARED FOR THE UNITED STATES
DEPARTMENT OF ENERGY
Under Cooperative Agreement
No. DE-FC36-98G010366-A000

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Summary of Work Performed:

1. 5/5: The Unalaska Public Works Department shipped the monitoring tower and equipment bought for the canceled project there to Nome, so that it could be erected for wind monitoring on Anvil Mountain.
2. 5/10: Steve Blazek (NEPA Compliance Officer) provided a copy of the draft Environmental Assessment to David Lockard (Project Manager) for review. Lockard provided comments by e-mail on 5/18.
3. 5/25: Lockard signed a Purchase Request for consulting services with WecTec Inc. to oversee the installation of two monitoring towers and equipment on Anvil Mountain.
4. 5/31: John Handeland (Director of the Nome Joint Utility System) obtained a permit from the Sitnasuak Native Corporation for temporary installation of the monitoring towers on Anvil Mountain. The utility paid the \$3,000 fee for the permit.
5. 6/19-21: Lockard and consultant Ed McCarthy erected two monitoring towers on Anvil Mountain with assistance from utility linesmen. Jim Dory, Assistant City Engineer, agreed to change the data cards on a monthly basis and mail them to Lockard for processing. Several utility workers expressed an interest in the project and received training on collecting data. The Anvil City Science Academy, a local charter school, expressed an interest in using the wind monitoring data for a science project. Lockard attended a Nome Joint Utility Board meeting where he gave a short presentation and answered questions on the proposed project.
6. 7/5: Lockard received 10 days of wind data from the two sites on Anvil Mountain. The 10m anemometer at site #1 showed a 12.7 mph average windspeed for the period, with a S/SW prevailing wind direction. The diurnal windspeed for the period followed the expected utility load profile quite well, with a peak at 2PM and a minimum at midnight.
7. 7/17: Blazek provided an updated draft EA to Lockard for review. Lockard provided review comments on 7/19.