

## Alaska Energy Cost Reduction Program Progress Report

**Grantee:** Alaska Village Electric Cooperative, Inc.

**Project Name:** AVEC Automated Controls Project  
Selawik W.O. 3G53  
St. Mary's W.O. 26G55

**Grant #:** 2195135

**Period of Report:** 01/2005 to 05/2005

### Project Activities Completed:

SELAWIK  
Specifications written for procurement of automated control panels & switchgear  
Design prepared  
Selawik gear installed inside control module  
Control Module shipped to site  
Control Module placed at Selawik  
Interconnects made  
Individual engines started  
System operating since 6/15/03  
Awaiting final commissioning  
Awaiting completion of remote monitoring capability  
Final accounting

ST. MARY'S  
Specifications written for procurement of automated control panels & switchgear  
Design completed  
St. Mary's gear stored in Anchorage

### Existing or Potential Problems:

SELAWIK  
Limited manpower to complete remote monitoring  
Limited Manpower to complete final commissioning

ST. MARY'S  
Lack of manpower to complete installation  
Components have been taken from St. Mary's gear to support other installations

### Activities Targeted for Next Reporting Period:

SELAWIK  
Remote monitoring to be completed  
Final commissioning of equipment  
Closeout of project

ST. MARY'S  
Replacement components secured and installed  
Installation currently scheduled for summer 2005



ALASKA VILLAGE ELECTRIC COOPERATIVE, INC.

May 5, 2005

05-M-045E

Ms. Rebecca Garrett  
Program Manager  
AIDEA / AEA  
813 W. Northern Lights Boulevard  
Anchorage, AK 99503

RECEIVED  
MAY 10 2005

AIDEA/AEA

Subject: Cost Reduction Grant Reporting Requirements

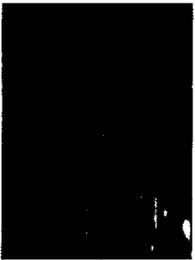
Dear Ms. Garrett:

Please find enclosed Quarterly Progress Reports for Grant Number 2195128 for AVEC Diesel Generator Improvements and Grant Number 2195135 for AVEC Automated Controls. The quarterly photographic documentation for the five Diesel Generator Improvement Projects had been forwarded previously. The quarterly photographic documentation for the two Automated Controls Projects is attached.

Sincerely yours,

Mark E. Teitzel  
Vice-President & Manager, Engineering

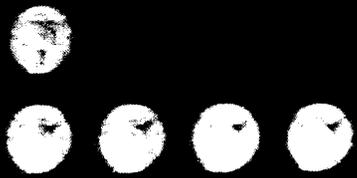
cc: Meera Kohler, President & CEO



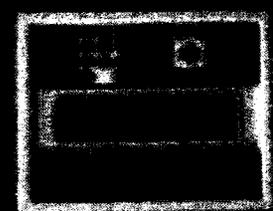
St Marys new Controls Front Panels



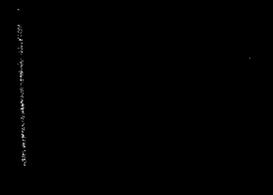
St Marys new Controls generator cell front detail 1



KOMBER POWER SYSTEMS



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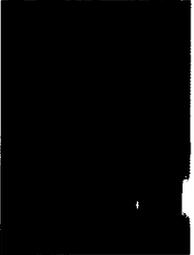


KOMBER POWER SYSTEMS

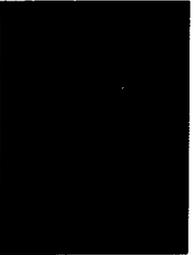




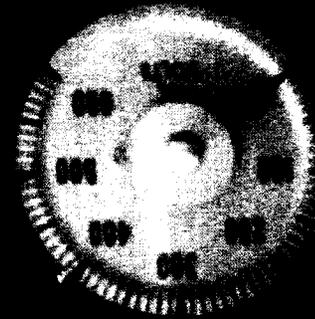
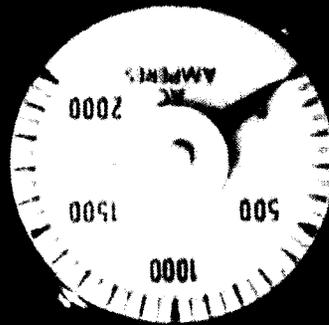
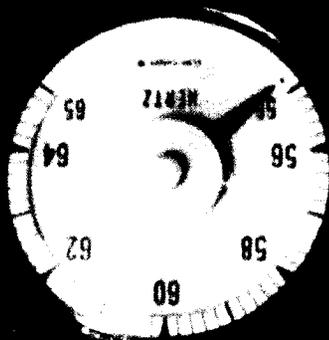
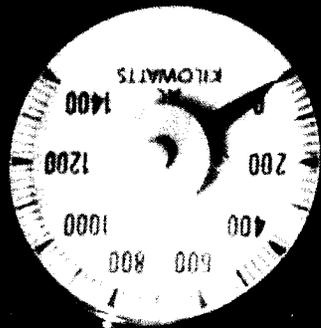
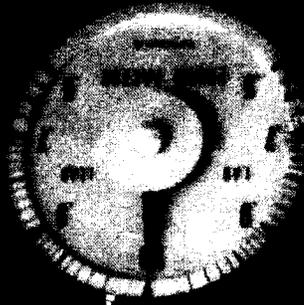
St Marys new SWGr detail 2

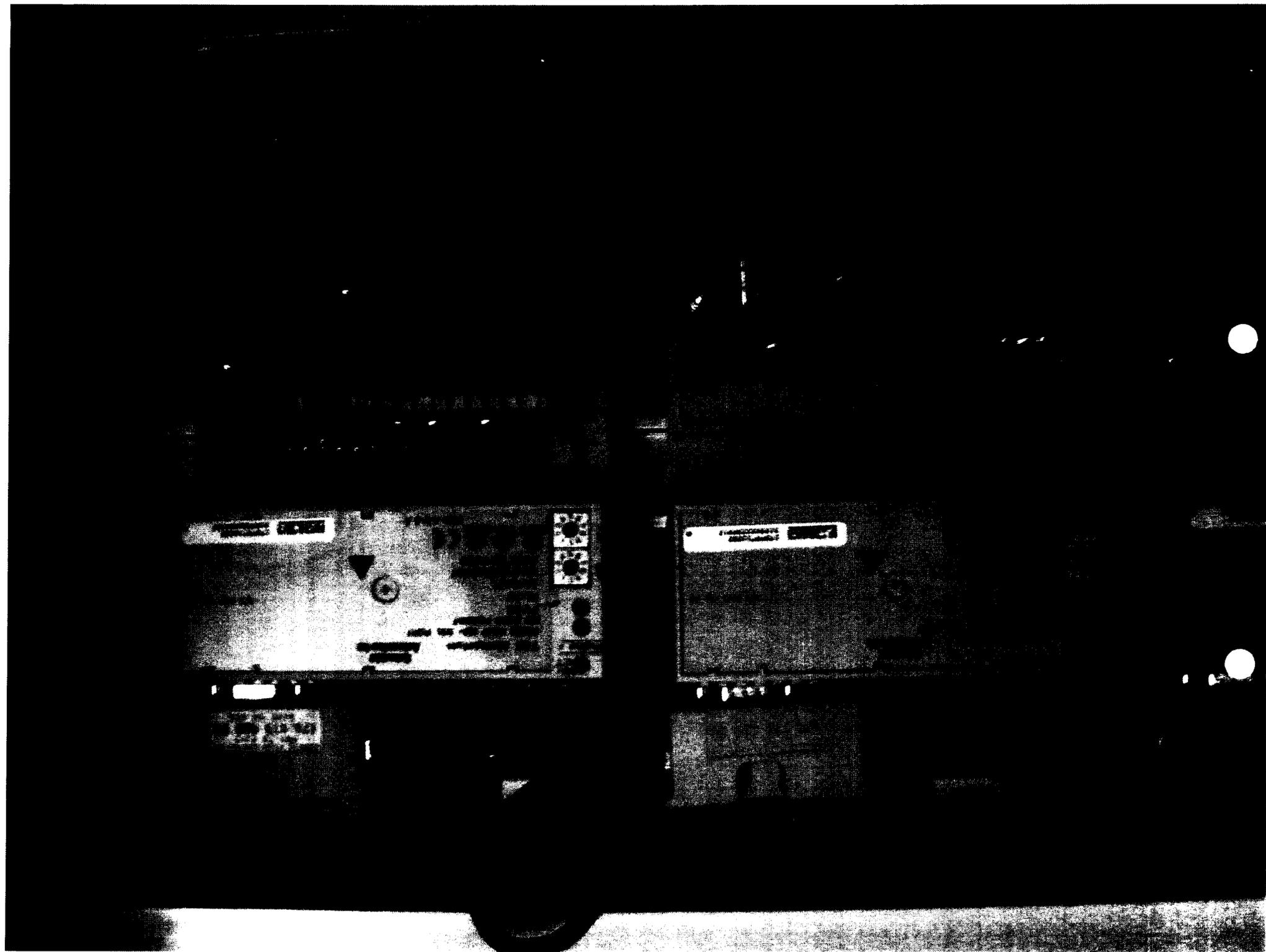


St Marys new SWGr PLCs

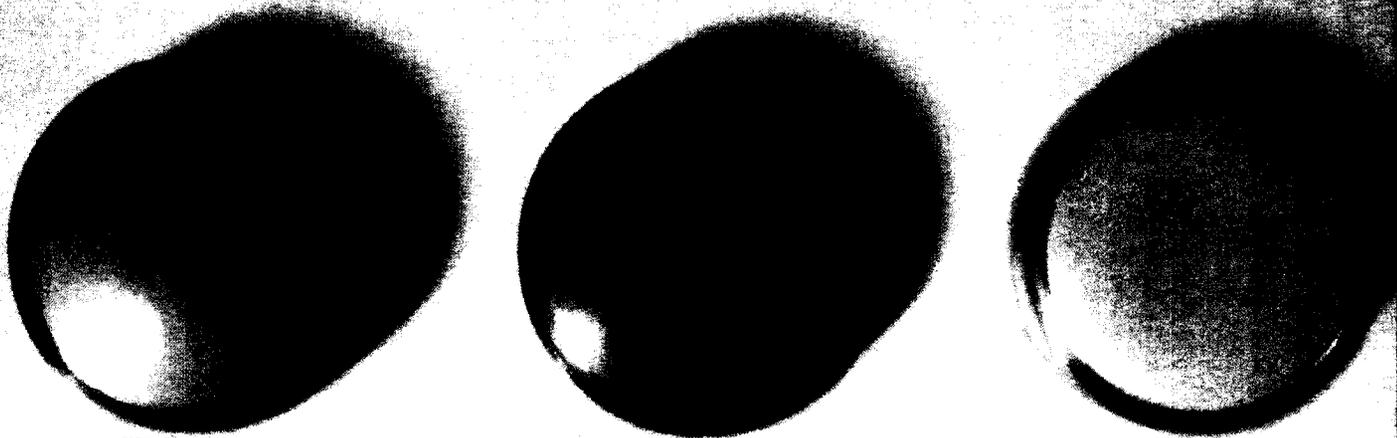


St Marys new Controls  
generator cell front detail 2





CIRCUIT BREAKER STATUS



CLOSE

TRIP

OPEN

BREAKER CONTROL



AUTO

TRIP

OPEN

STOP