

**CHUGACH ELECTRIC ASSOCIATION, INC.**  
**Anchorage, Alaska**  
**OPERATIONS COMMITTEE MEETING**  
**AGENDA ITEM SUMMARY**

**July 25, 2007**

**ACTION REQUIRED**

**AGENDA ITEM NO. V.**

- Information Only**
  - Motion**
  - Resolution**
  - Executive Session**
  - Other**
- 

**TOPIC**

Project Authorization – Six Mile West Submarine Cable Terminal – Erosion Protection

**DISCUSSION**

230 kV submarine cables are exposed at the bluff near the Six Mile Submarine Cable Terminal. The National Electric Safety Code (NESC) requires that cables be embedded at least 42” deep. In addition to the NESC requirement, the cables pose a hazard to traffic along the beach and are susceptible to damage from ice scour and vandalism.

The cables were originally installed in 1981 and bluff erosion has exposed them several times in the past 26 years. We have been able to lower the cables under the receding bluff until now, but have used up all available extra length (slack). Alternatives investigated included:

- Add cable length by splicing new cable into the existing ones and lower them into the existing bluff.
- Cover the exposed cables with imported earthen fill (beach nourishment)
- Cover the cables with concrete block mats
- Install armored fill over the cables
- Install armored groins upstream and downstream of the cables

The lowest overall cost option is installation of groins with the expectation that the area between them will fill naturally with sediments.

Project expenditure authorization is requested.

**MOTION**

Move that the Operations Committee recommend to the Chugach Board of Directors authorization for project expenditures for Six Mile West Submarine Cable Terminal – Erosion Protection with an estimated cost of \$2,210,000 and an estimated completion date of October 2007.

**RESOLUTION**

WHEREAS, Chugach Electric Association, Inc. (Chugach) owns and operates a 230 kV submarine cable circuit between Six Mile West and East Cable Terminals; and

WHEREAS, these cables are to be embedded on the shore at both terminals to fulfill National Electric Safety Code requirements; and

WHEREAS, erosion has caused these cables to become exposed at the Six Mile West Terminal; and

WHEREAS, Chugach has included funds for erosion protection in the 2007-2011 Capital Improvement Plan; and

WHEREAS, Chugach has included funding in its 2007 Annual Operating budget for the design and construction of the Six Mile West Submarine Cable Terminal – Erosion Protection

NOW, THEREFORE, BE IT RESOLVED the Board of Directors of Chugach Electric Association, Inc. authorizes project expenditures for Six Mile West Submarine Cable Terminal – Erosion Protection with an estimated cost of \$2,210,000 and an estimated completion date of October 2007.

**CERTIFICATION**

I, Alex Gimarc, do hereby certify that I am Secretary of Chugach Electric Association, Inc., an electric non-profit cooperative membership corporation organized and existing under the laws of the State of Alaska: that the foregoing is a complete and correct copy of a resolution adopted at a meeting of the Board of Directors of this corporation, duly and properly called and held on the \_\_\_\_ day of \_\_\_\_\_, 2007; that a quorum was present at the meeting; that the resolution is set forth in the minutes of the meeting and has not been rescinded or modified.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed the seal of this corporation the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

(Seal)

\_\_\_\_\_  
Secretary