

## Stetson Creek Diversion/Cooper Lake Dam Facilities Project

<b>Grantees</b>	Chugach Electric Association, Inc. (Utility-Cooperative)
<b>Technology Type</b>	HYDRO
<b>Region</b>	Railbelt
<b>AEDG Project Code</b>	10315

### REF Grants Received

Round	App	Grant Title	Grant #	AEA Project #	Phase	Start Date	End Date	Status
4	674	Stetson Creek Diversion/Cooper Lake Dam Facilities Project	7040005	407077	Final Design	7/1/11	12/31/12	Active
7	1082	Stetson Creek Diversion Cooper Lake Dam Facilities Project	7071082	407077	Construction	7/1/14	12/31/15	Active

### Grant 7040005: Stetson Creek Diversion/Cooper Lake Dam Facilities Project

**Project Scope:** The project is for feasibility, permitting and final design of a project to divert water from Stetson Creek to Cooper Lake to release environmental flows into Cooper Creek. This change was part of a settlement agreement reached during the Federal Energy Regulatory Commission relicensing of the Cooper Lake Hydroelectric Project in 2007.

The main benefit of the proposed project would be the continued operation of the 19.4 MW Cooper Lake Hydroelectric Project. In addition, the diversion adds water to Cooper Lake, resulting in a new increase in hydroelectric generation. A new control structure will be added near the existing Cooper Lake embankment dam to regulate environmental flows in the upper reaches of the Cooper Creek below the dam. These flows will enhance fish habitat in this reach by using natural-warmed lake water to insure optimal water temperatures.

Chugach has agreed to match Renewable Energy funding awarded under this grant using cash and in-kind contributions on a dollar-for-dollar basis.

The diversion project is located within the Chugach National Forest.

Permits expected to be required include U.S. Army Corps of Engineers 404 Permit, Alaska Department of Environmental Conservation 401 Water Quality Certification, U.S. Environmental Protection Agency Storm Water Pollution Discharge Elimination System Permit, Alaska Department of Fish and Game Fish Habitat Permit, Alaska Department of Natural Resources Water Rights, and Alaska Department of Natural Resources Coastal Project Questionnaire.

Chugach has worked with all of the above agencies and does not anticipate any overwhelming barrier to securing the needed permits.

**Project Status:** CEA has completed final design documents and has started construction. As of the end of 2014 the Stetson diversion structure is nearly complete. Remaining work on the conveyance and siphon will be completed in 2015.

As of Nov. 30, 2013	Budget	Expenditures
Renewable Energy Funding	\$576,080.00	\$576,080.00
Other State Funding	\$0.00	\$0.00
<b>Total State</b>	<b>\$576,080.00</b>	<b>\$576,080.00</b>
Required Local Match	\$576,080.00	\$576,080.00
Federal Grant Funding	\$0.00	\$0.00
<b>Total Project Costs</b>	<b>\$1,152,160.00</b>	<b>\$1,152,160.00</b>

### Grant 7071082: Stetson Creek Diversion Cooper Lake Dam Facilities Project

**Project Scope:** The grant is for the construction of the Stetson Creek Diversion.

**Project Status:** CEA has completed final design documents and has started construction. As of the end of 2014 the Stetson diversion structure is nearly complete. Remaining work on the conveyance and siphon will be completed in 2015.

Construction of the Stetson project is nearly complete. The report filed in Aug 2015 indicated that both the diversion and siphon system were operational and commissioned and that some minor work remained including retaining walls, final site grading, and demobilization. Final record drawings and FERC filings are also expected in the near future to complete the project. The Aug 2015 indicated approximately \$1.375 million remaining in grant funds.

Only minor construction work remains consisting of communication links and closeout documents. As of January 2016 all the closeout documents are expected to be provided by the end of the month. A significant amount of construction retainage remains to be paid pending release of claims by the contractor/surety.

<b>As of Nov. 30, 2013</b>	<b>Budget</b>	<b>Expenditures</b>
Renewable Energy Funding	\$3,453,900.00	\$2,197,926.76
Other State Funding	\$0.00	\$0.00
<b>Total State</b>	<b>\$3,453,900.00</b>	<b>\$2,197,926.76</b>
Required Local Match	\$3,453,900.00	\$2,581,090.13
Federal Grant Funding	\$0.00	\$0.00
<b>Total Project Costs</b>	<b>\$6,907,800.00</b>	<b>\$4,779,016.89</b>