

## **Precision Quincy Shelters at Work in Alaska**

Chevak is getting a new modular-style power plant that includes a control module and three engine-generator modules that were built up at AVEC's headquarters in Anchorage. Other support modules consist of a cold and warm storage module; a lubricating oil storage module; and an emergency living quarters module. The generator and control modules are on their way to Chevak via barge and will be placed on pilings.

The fully automated power plant is scheduled for commission in 2009 with a total diesel-engine generating capacity of 1,777 kW. Four Northwind 100 wind turbines will also be erected, providing an additional 400 kW generating capacity. The new, fuel-efficient diesel engines and the wind turbines will eventually reduce the amount of diesel fuel consumed.

### **Photo captions:**

Darren Richardson operated a Caterpillar 966D loader to place this 824kW Cummins QSK23 diesel engine-generator set into a module. The gen-set weighed about 15,000 pounds.

The heavy gen-set and skid were so big they barely fit into the module opening. Teamwork and skillful loader operation were required to delicately maneuver the engine into place. Krist Berg provided hand signals.

Right: AVEC employees toured the modules before they were prepared for shipping.

Photos and article by Amy Murphy.

The four finished module were packed with extra parts and equipment and shrink-wrapped in preparation for shipping by barge. The modules weighed up to 46,500 pounds and required a huge 150-ton crane to lift them. The first module exceeded transportation height regulations after being placed on the truck trailer, requiring a different truck with a lower trailer to be called in.

A 1,800-RPM Caterpillar 3456, rated at 350 kW is placed in module #1, awaiting installation and module build-up.

Left: This engine/generator module was built up from "bare bones" and is ready for shipping to Chevak for final installation.

Summer hires Kody Zaumseil (left) and Chris Hulse stand by an 1,800 RPM Cummins QSX15 499 kW engine (and related systems) they helped install.

Left to right: Ereik Berg, Krist Berg, Chet Frost and Darren Richardson (back). Ereik and Krist are a talented father and son welding team that worked on the modules. Chet is the Denali Commission Projects Engineer and Darren, warehouse personnel, is a forklift guru who also provided outstanding help whenever and wherever needed.

**Above: The first module is removed from the first truck and placed on the second truck with a lower trailer (below).**

**Below: An outdoor fabrication/welding shop was set up for use during build-up of the new power plant modules. Having the outdoor shop kept some of the noise and smells associated with welding out of the office building.**

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