



PDC INC. ENGINEERS

Transforming Challenges into Solutions



NOAA Ted Stevens Marine Research Institute

The Ted Stevens Marine Research Institute (TSMRI) is a new administrative and research complex for the National Oceanic and Atmospheric Sciences Administration (NOAA) and the National Marine Fisheries Service (NMFS) in Juneau, Alaska, on a site to be shared with the University of Alaska's future School of Fisheries and Ocean Sciences Facility (also designed by PDC). The TSMRI houses a seawater intake structure, administrative offices, common areas, specialized laboratories, seawater filtration house, support facilities, and warehouse facilities. Common areas include conference rooms, a 225-seat auditorium, library, cafeteria, day care facility, and fitness center. Laboratories include chemical and biology labs, wet labs, computer labs, and lab support facilities. A warehouse accommodates storage for all NOAA/NMFS Regional Office programs and Auke Bay Laboratory departments.

Client:

Livingston Slone, Inc.

Owner:

National Oceanic and Atmospheric Administration

Location:

Juneau, Alaska

Project Completion:

2006

PDC Involvement:

- Mechanical Design
- Mechanical Construction Services
- Electrical Design
- Electrical Construction Services

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A key objective of the project is to provide state-of-the-art research space with emphasis on flexibility, energy efficiency, minimizing operations and maintenance costs, and minimizing the facility's life cycle cost. This is the first laboratory project in a cold regions environment designed under the LEED sustainable design rating system.

PDC became involved with the project during the Environmental Impact Statement (EIS) and Concept Design Phase. Our work included refining the space utilization program and capacity requirements; developing fundamental systems (number, type, arrangements, major equipment, distribution and rough sizes); preliminary sizing of major spaces for utilities and major distribution areas; and determining ways of distributing services throughout the facility. Following approval of the EIS and concept design and release of project funding, PDC completed full construction documents for bidding.

PDC's mechanical, electrical, and fire protection design services included plumbing, HVAC, laboratory fume hood exhaust, seawater distribution, process cooling, wastewater treatment, electrical service and distribution, emergency power generation, lighting, power, site electrical, communications, security, and direct digital controls.