



SPECIALIZED EXPERIENCE

- ❑ Institutional and Municipal Facilities
- ❑ Educational Facilities
- ❑ Remote Water and Sewer Facilities
- ❑ Aircraft Facilities
- ❑ Heating and Ventilation Systems
- ❑ Process Piping and Plumbing systems
- ❑ Fuel Systems
- ❑ Energy Conservation
- ❑ Fire Protection

EDUCATION

- ❑ BSME, 1970, California State Polytechnic College, San Luis Obispo
- ❑ Continuing Education in HVAC, Corrosion Control, Arctic Engineering

PROFESSIONAL QUALIFICATIONS

Kevin L. Hansen, P.E., EDC, Inc. Kevin Hansen is a principal of EDC, Inc., and the engineer of record for the mechanical projects designed by the firm. He has been with the company since 1994 and has over 33 years experience in design of mechanical systems for federal, state, municipal, commercial, industrial and educational facilities. He has worked on projects throughout the State of Alaska and has extensive experience in remote communities and locations.

Kevin's work history includes projects for numerous governmental agencies including the Corps of Engineers, Village Safe Water, Alaska Native Tribal Health Consortium (ANTHC), Alaska Industrial Development and Export Authority (AIDEA), the State of Alaska Department of Transportation, the State of Alaska Department of Corrections, the Municipality of Anchorage and many other city and local municipalities. He has designed several complex, multi-million dollar facilities including aircraft hangars for Elmendorf Air Force Base, and the Red Dog Mine Port Site Material Handling Expansion project. He has also designed numerous utilidor upgrades at Eielson AFB for their ongoing utility replacement program.

Kevin has comprehensive experience related to commercial and institutional projects. He has designed HVAC and plumbing systems for schools, dormitories, senior citizens activity centers, and apartment buildings. Kevin's aircraft hangar projects included a major upgrade of an existing hangar where he designed a new gas-fired heating plant and new HVAC systems incorporating heat recovery units. He also designed the mechanical systems for a new Fuel Systems Maintenance Hangar. His school mechanical systems designs range from Barrow to Anchorage, and he has been involved in Value Engineering and review for school projects in Southeast Alaska. Kevin has completed energy audits for the water and wastewater facilities at Homer, and for Alaska Railroad Corporation's Anchorage Roundhouse. A recent project was the upgrade of HVAC systems in Anchorage Water & Wastewater Utility's Headquarters building. The project included a complete DDC control system replacement and a variety of HVAC improvements to accommodate revised building layouts.

Kevin's involvement in municipal works projects includes mechanical systems design and construction review of water and wastewater plants for various Alaskan communities. These projects range from Village Safe Water facilities with water supply, laundry, showers, and sewage treatment for remote villages to major expansions of larger communities' wastewater facilities. Mr. Hansen has provided design and construction review of water supply systems for private water utilities in Alaska which included diesel-driven fire service pumps as well as normal service pressure pumps. He was part of the design and construction services team for AWWU's Point Woronzof and Eagle River Wastewater

PROFESSIONAL LICENSE

- ❑ Registered Professional Engineer, State of Alaska (ME-5641)

AFFILIATIONS

- ❑ American Society of Mechanical Engineers
- ❑ American Society of Heating, Refrigeration, and Air Conditioning Engineers
- ❑ National Society of Professional Engineers

REFERENCES

- ❑ Mark Palmatier, Cornerstone Construction, (907) 561-1993
- ❑ Greg Magee, P.E., VSW, (907) 269-7613
- ❑ Todd Carroll, P.E, AWWU (907) 564-2753

Treatment Plant expansion projects.

Mr. Hansen's steam system design experience includes projects early in his career at Elmendorf AFB. He designed numerous projects utilizing steam heat, including an auto hobby and crafts center that required an extension of utilities. Other projects included dining hall remodels utilizing steam heating coils and heat recovery systems. A more recent Elmendorf project involved rerouting direct bury steam and condensate mains for expansion of an aircraft hangar. At Eielson AFB, he designed Phases 3, 5, 9, 10, and 11 of the Utilidor repair program, with responsibility for steam and condensate for all phases, and water and sewer for the latter three. Mr. Hansen also designed a heating system replacement for Eielson's Temporary Lodging Facility.

Kevin has designed fuel systems, both individually and as an integral part of many of his projects. He has been involved in upgrades for rural bulk fuel systems for the Alaska Energy Authority at a number of villages, including Chuathbaluk, Crooked Creek, Hoonah, Port Graham, White Mountain, Red Devil, and Larsen Bay. Those projects involved site investigations of existing bulk fuel storage, identifying potential sites for new consolidated fuel storage facilities, development of preliminary design for funding allocation, and final design of tankage, piping, fuel delivery, transfer, and dispensing systems. Kevin also designed piping system modifications at Texaco's Anchorage Port Tank Farm to enable the transfer of petroleum products between tanks and loading stations. The majority of his facility designs have used fuel oil as an energy source.

Kevin has a broad base of technical knowledge. During his career he has adopted technologies to develop tools for analysis of mechanical systems while maintaining and expanding on solid background of fundamental knowledge in the fields of hydraulics, heat transfer, and other areas. While attending college, he worked part time in the plumbing and heating trades, where he gathered valuable practical experience for his mechanical engineering career.

Prior to joining EDC, Inc., Kevin was Chief Mechanical Engineer for CH2M Hill's Anchorage Office, where he designed and managed a wide variety of mechanical systems projects.

Kevin began his engineering career as a civilian employee with the Civil Engineering Squadron at Elmendorf AFB., where he was involved in projects such as steam distribution system expansions, remodel of dining, office, and housing facilities, a new hobby and craft center, and industrial facilities improvements. He was also responsible for review of all projects for corrosion control, and performed corrosion control surveys of Air Force Facilities.