**WILLIAM J. SPINDLER**

**POLAR REGIONS EXPERIENCE SUMMARY**

**ANTARCTIC:** Seven years project experience, including 4½ years on continent:

Project Engineer for construction completion of new South Pole Station, 2008

 Provided field engineering for construction of new Logistics Facility during the 2008 winter (February-November); researched and resolved punch list items, updated station power distribution drawings; assisted facilities engineer with upgrade and repair projects

Title II Inspector for construction of new elevated South Pole Station, 2005

 Monitored construction activity during the 2005 winter (February-November); provided daily reports, photographs, and documentation to the design team and client National Science Foundation

 Project Engineer for small stations (primarily South Pole and Palmer Stations) 1986-90

 South Pole Station major projects:

 Power plant upgrade including new (1990-2001) generators, switchgear upgrade, glycol/waste heat recovery system reconfiguration, and upgrades to summer camp power plant, distribution, and backfeeding systems

 Repairs to cracked dome base ring--including coordination with vendor and site O&M to replace damaged members, relocate antenna cables to new skylab utilidor, excavate drifts, and jack and level the structure

 New station fire alarm system

 Jacking to elevate NOAA/GMCC Clean Air Facility (this facility was removed in 1997)

 Troubleshooting and upgrades to lift station and utilidor heat tracing systems

 Palmer Station major projects

 Power plant upgrade, including 2 new engine-generators, revamp of heat recovery system, switchgear rewiring, and replacement of station main distribution panels

 Replacement of exterior skin (insulated wall and roof panels, windows and doors) of Biolab, including coordination of disposal of old galvanized asbestos panels

 Water/sewer system upgrades including replacement of seawater intake, additional desalinator and reverse osmosis units, new potable water storage tanks and controls, preinsulated heat traced piping, sewage macerator and outfall

 Fire alarm/suppression system upgrades to outlying buildings and Biolab

 Major HVAC redesign including additional ductwork and boiler replacement

 Pier replacement/improvement engineering study coordination

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Other

 Life expectancy study (settlement/crushing) of buried Siple Station, and evaluation of preservation options

 Site surveys/recommendations for Copacabana Site utilities (King George Island), East Base (Stonington Island) conservation, and Old Palmer Station remediation

 McMurdo power/water plant control system and cogeneration studies

South Pole Station Manager 1976-77

 Extremely successful summer and winter seasons for science support and O&M

 Recovery from major summer camp kitchen/bathroom facility fire at beginning of 1976-77 summer season

 Construction of elevated NOAA/GMCC Clean Air Facility

U. S. Navy 1972

 Temporary duty with Naval Support Force Antarctica, including site inspection of McMurdo Station, Williams Field, and nuclear plant facilities

**ALASKA:** Nine years project experience, including 2½ years on the North Slope and 1½ years in South Central Alaska

 Construction engineering for modular North Slope oil processing and utility units at Lower 48 sites in Louisiana (1992-94) and Oregon (1985-86)

 Project and construction engineering for Alyeska Pipeline work in Valdez, Anchorage, and northern Alaska 1990-92

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 Site survey coordination onshore/offshore Cook Inlet, 1985

 Construction engineering for installation and commissioning of modular North Slope oil/water processing units on-site 1982-84

 Coordination of gravel mining plans and permit preparation for proposed Alaskan gas pipeline, 1981-82

**GREENLAND:** One year of project experience including 8 months on-site (Thule)

 Design and construction coordination for major additions to Air Force satellite control facilities (1989-90)

 Site O&M engineering and coordination at BMEWS radar site, including replacement of main ring gear and hydraulic system repairs for 110-ton radar antenna (1978)