

ALLEN J. PALMER, P.E.

EDUCATION

BS, Civil Engineering, 1973, Iowa State University - Graduated with Honors
Post Graduate Work, 1976 - 1982 University of Pittsburgh

SUMMARY

Mr. Palmer's experience is in the management, coordination and execution of estimating, design, erection, start up, operation and repair of container handling equipment, marine equipment, bulk materials handling equipment and systems, gates and gate hoists, radial stackers, steel mill equipment and iron ore processing.

Included in this experience is the investigation of numerous accidents involving cranes, stacker/reclaimers, mining equipment, continuous ladder barge unloaders, and other large material handling equipment. Mr. Palmer has also provided expert witness testimony regarding this equipment.

MEMBERSHIPS

Registered Professional Engineer - Mississippi
American Society of Civil Engineers

CAREER HISTORY

FORCON International

Accident investigations and expert witness services involving various machinery including overhead and mobile cranes, knuckle boom loader, unloading hopper, conveyor systems, radial stacker, wood chipper, barge loader, container cranes and other equipment. Services include determining cause of accident, estimate of cost to repair/replace, repair procedures, expert reports, depositions and trial testimony.

Self Employed Engineering Consultant

Independent consulting engineer specializing in the design of large steel structures, including rubber tired gantry cranes, traveling coal stacker, rail bridge for loading railcars onto barges and ships, continuous ladder bucket unloader, pressure vessel fixtures and supports, customer access ramps for casino barges, building frames, reach stacker booms, lift truck carriages and masts, crane runways and other large steel weldments.

Coast Engineering & Manufacturing Company - Product Manager, Marine Equipment & Government Services & Program Manager, NAVFAC Contracts. - Responsible for directing all activities of the Marine Equipment Group, including Sales & Marketing, contract Administration and Customer Service. Responsible for the administration of a series of prime Navy contracts for Ro/Ro Discharge Facility and **Navy** Lighterage (Causeways), including Contract Administration, Data Management, Configuration Management, Engineering, Testing, Material Procurement and Government Property Control.

Paceco, Inc. - Director of Estimating Engineering. - Responsible for all estimating for container handling equipment, marine equipment and contract manufacturing projects, including technical and pricing estimators. Assisted the Marketing Department with customer presentations. - Principal Structural Engineer - Responsible for the structural design of container handling equipment, gate and gate hoists, and bulk materials handling equipment, including responsibility for managing design engineers and draftsmen, and technical interfacing with other departments and the customer. Projects included design and supply of new tall Transtainer crane; design and supply of 45ST railmounted Transtainer crane; and design of clamshell unloader.

Dravo Corporation - Senior Structural Engineer - Responsible for proposal and final design engineering for rotary car dumpers, ash handling equipment, oil shale machine, steel mill equipment, tainter gates, vertical lift gates, trashracks and radial stackers, including responsibility for managing design engineers and drafters and interfacing with other departments and outside fabricators. Projects included design and supply of rotary car dumpers; design and supply of spillway crest gates; design and supply of tainter gates and hoists; design of oil shale machine; and design and supply of truck loadout station.

Project Engineer - Responsible for coordination of design detailing, purchasing and fabrication of steel mill equipment, tainter gates, vertical lift gates, spillway crest gates, trashracks, radial stackers and new product development, including coordination of structural, mechanical and electrical design, preparation of fabrication and erection specifications and interfacing with other departments and outside fabricators. Projects included design and supply of spillway crest gates; design and supply of 390-ton ladle tilter and transfer car frames; design and supply of pelletizing machines; and design and supply of vertical lift gates, trashracks and gate hoists

Design Engineer - Responsible for proposal and final design engineering for coke oven machinery, steel plant equipment, tainter gates, vertical lift gates, spillway crest gates, trashracks and radial stackers, including coordination of structural design, preparation of design calculations and specifications, and establishment of design standards for gate equipment. Projects have included design of gates and gate hoists for dam project: preliminary design of gates for pumped hydro project; structural design of 150-foot boom,

3500TPH radial stackers; structural design of a scrap box transfer car frame; and design of sinter machine and cooler.

Proposal Design Engineer - Responsible for proposal design engineering for bulk material handling systems, steel mill equipment, gate equipment, radial stackers, and other equipment. Projects included the design of scrap charging machine , scrap box and transfer cars ; design of conveyor trusses and transfer towers for power station; design of transfer towers and rotary dumper hopper ; design of rotating log handling crane; and analysis and evaluation of a mechanical automobile parking garage.

Structural Design Engineer - Responsible for the structural design of bulk material handling equipment including bucket wheel stacker/reclaimers, barge loaders, continuous bucket ladder unloaders, and clamshell unloaders. Projects included design work on a 93-foot boom bucket wheel stacker/reclaimer; design work on a 6000-TPH barge loader; and redesign of a trench type stacker/reclaimer.

Field Engineer - Responsible for erection, startup, testing, operation, repair and maintenance of bulk materials handling equipment and specialty equipment. Assignments included erection, startup and testing of a 93-foot boom bucket wheel stacker/reclaimer for an electric generating station; operating, maintenance and repair work on an automobile reduction mill; startup and testing of a 78-foot boom bucket wheel stacker/reclaimer; repair work on a 200-foot boom stacker.

Structural Design Engineer - Structural design assignments for bulk material handling equipment, including computer analysis of the diaphragm plates for a clamshell unloader; design work on a 120-foot boom stacker/reclaimer; and analysis of a continuous barge unloader.