

Debu Bhaumik, P.E.

Principal

Forty years of experience in designing/specifying structures, foundations, site work, and providing construction support services to Power, Industrial, Transportation, and Commercial projects. Experiences were gained during employment with Bhaumik Engineering LLC, Parsons E&C, Sargent & Lundy LLC, URS Corporation, Raytheon/United Engineers & Constructors, Mitra & Associates, Inc., The Kuljian Corporation, and M. N. Dastur & Company Pvt. Ltd.

Summary of selected experiences and projects:

Structural Design experience includes steel and concrete structures for Power Generation/Transmission, Air Pollution Control, Steel Making/Galvanizing, Manufacturing and Storage Buildings, Vehicular/Pedestrian Bridges, Box Culverts, Commuter Rail Station Platforms, Groundwater Treatment Plant, Equipment Support/Access, Pipe Bridge, Crane Runway Girders, Steel Stacks, Steel Bunkers, Hoppers, and Gas Ducts.

Foundation Structural Design experience includes shallow/deep Foundations for steel and masonry Buildings, Pre-engineered Buildings, Bridges, Conveyors, Statically and Dynamically Loaded Equipment, Concrete Chimneys, Steel Stacks, Transmission Towers, Steel Tanks, and Ductwork support steel.

Other experiences include site engineering; underground utility structures, plant roadway/grading design; permitting support; construction bid evaluation; contractor submittal review; and expert witness services.

APS Four Corners	- SCR: Air ductwork design U 4 and 5
Kentucky Utilities/Ghent	- Baghouse: Gas ductwork design U 2, 3, 4
We Energy South Oak Creek	- SCR+FGD: Gas ductwork design
PSEG Hudson	- Baghouse: Foundation design for PJFF, SDA, and miscellaneous equipment
Dominion Nuclear	-Structural design of transformer foundations with fire walls, retaining walls
PSEG Power Salem	- Structural design reinforced concrete mat foundation for diesel generator
PSEG Power Salem	- Structural design of feed water pump foundation on turbine building floor
PSEG Power Hop Creek	- Diesel generator support framing steel and anchorage on existing roof
Interstate Asphalt	- Foundation design for equipment, conveyor, transfer tower, silo
TVA Cumberland	- FGD: Foundations for Absorber Bldg. Duct Support Steel, Stack, ID Fans
IMTT Bayonne, NJ	- Groundwater Treatment Plant Building and equipment foundation design
Warehouse	- Pre-engineered steel building foundation design, Palmyra, NJ
BF Goodrich, Oyster Creek, NY	- Groundwater Cleanup Pilot Plant structural, at EPA Superfund Site
Delaware River Port Authority	- Vehicle/Equipment Storage Buildings
Santell Tower Foundations	- Structural design of telecom tower anchorage, micro pile and pile cap
Con Edison	- Rooftop and indoor equipment support
Helvoet Pharma	- Manufacturing and Chemical Storage Facility Expansion
Mayne Pharma	- Structural arrangement and connection design for equipment accesses
PPL Montour	- FGD: Structural steel connection design; field problem resolution
Montebello Water Reservoir	- Structural evaluation of reservoir base slab against crane and truck loads
Aluminum Shapes Process Tank	- Structural design of 24 ft x 8 ft x 10 ft deep reinforced concrete tank inside plant
Bethlehem Steel Corporation	- Galvanizing Line equipment & building foundations, Burns Harbor, IN
Bethlehem Steel Corporation	- Steel Stack with foundation design, Burns Harbor, IN
Bethlehem Steel Corporation	- Galvanizing Lines; Skin Pass Mill Relocation structural, Sparrows Point, MD
Inland Steel/Nippon Steel JV	- Galvanizing Lines equipment and building foundations: New Carlisle, IN
Santee Cooper	- SCR: ESP/Duct structural evaluation/upgrade mod; Ammonia Plant Building
MP Electricity Board	- 2x 210 MW Powerhouse Building; 440 KV Electric Substations - India
Bokaro Steel Limited	- Steel Melt Shop and Cold Rolling Mill Expansion - India

Education/Registration/Skills

Bachelor of Civil Engineering, 1977, Jadavpur University, Kolkata, India

Registered Engineer in PA and DE

Software skills – STAAD.Pro, Mathcad, Excel, SP Mats, SP Columns, Foundation 3D, SAFE