Technical Capabilities

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Accessibility compliance& evaluations	8120
Acid mine drainage	8313
Acoustics	8560
Administrative record management	8270
Aerial photography	8250
Aggregate testing	8530
Agrometeorology	8250
Amphibian studies & surveys	8290
Ancillary service monitoring Aquatic restoration & systems	8440 8290
Aquifer / stream	8320
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Architectural design	8120
Architectural models	8560
As-built / TSC drawings	8322
Atmosphere / watershed ecosystem models	8250
AutoCAD	8322
Automated Data Acquisition Systems	8360
Automation, irrigation	8560
Automation, powerplant & generation control	8450
Avian surveys & research B	8290
Bank & bed stabilization & bed material sampling	8240
Bathymetric surveys	8560
Battery testing	8450
Bearing cooling systems	8410
Biocontrol	8560
Blasting requirements	8312
Borescope inspection	8410
Borrow area development	8311/8320
Borrow, bridge, & building investigations	8320
Bridge & building foundations, geologic analysis	8320
Bridges Budget & schedule developing	8150 8010
Building additions, modifications, rehabilitation,	8120
& design (green)	0120
Building earthquake safety & structural, risk,	8120/8150
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Bulkhead gates	8410
Bullchase gate, stoplog design	8410
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Cable testing	8450 8410/8430
Cableways CALSIM (optimization system model)	8210
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Canals, cofferdams, & pipelines, geotechnical engineering	
Canals, water conveyance	8140
Cathodic protection	8540
Cavitation detection	8560
Cement/Pozzolan Evaluation	8530
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Chemical processes & testing Chemistry for hazardous waste products	8190 8540
Chemistry, quality assurance	8190
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Circuit breaker ratings & testing	8440
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Climate analysis, simulation & change	8210
Climate studies	8250
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Coatings & Corrosion School	8540
Coatings Testing, Inspection, & Evaluation Composite Materials	8540
Composite Materials Comprehensive Facility Reviews, mechanical equipment	8540 8410
Compressed air systems	8410
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Concrete & Concrete Repair Schools	8530
Concrete Coring	8530

Concrete dam foundations	8312
Concrete dams & concrete structure inspections	8130
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Concrete dams, seismic analysis	8110
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Concrete, precast	8120
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Construction cost trends, index	8520
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Construction management & contract schedules	8510
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Construction support & inspections	8510
Consumptive use	8210
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Control system design	8430
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Core recovery	8320
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Costs vs. benefits	8270
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Critical Path Method (CPM) schedules	8510
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Dam & diving inspections & diving team	8130
Dam breach modeling	8560
Dam decommissioning planning, removal, or	8240
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Dam failure inundation studies & maps	8250
Dam foundations, grouting	8312
Dam instrumentation database	8360
Dam overtopping protection	8560
Dam removal design (embankment dams)	8313
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Dam safety & Operations & Maintenance	8360
Dam safety research, hydraulic models	8560
Dam safety, hydrological aspects	8250
Dams & water conveyance investigation & analysis	8320
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Diversion structures (hydrologic modeling)	8240
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Drainage, ground water & drought analysis	8210
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Hydrologic engineering, studies, & models	8210	0
Hydrology, flood & statistical analyses	8250	Oil purification & lubrication systems
Hydrometeorology, hydrometeorological studies &	8250	Operation & maintenance manuals (water systems)
threat forecasting	9450	Operation & maintenance training (power systems) OPSTUDY
Hydropower Diagnostics & SCADA Group Hydropower generation, cost evaluation modeling	8450 8270	Optimization, economic investigations
investigations	0270	Outlet works
HYDROSS-HSS modeling system	8210	P
	0210	Paints & Protective Coatings
IGSM	8210	Paleoflood Hydrology
Incident & serious accident investigations	8450	Particle imaging velocimetry
Independent Government Cost Estimates (IGCE)	8520	Penstock & Pipe Inspection Program
Indian Trust Assets (ITA) evaluation	8270	Petrography of Concrete/Rocks/Soils
Infrared Inspection Program	8450	Photogeologic mapping
Inspections & damage survey reports	8360	Photogrammetry
Instrumentation & inspections	8360	Piezometers
Insulation, high-voltage testing & diagnostics	8440	Pipe design
Interior building design	8120	Pipelines
Invasive species	8290/8560	Pipelines, specification drawings, geotechnical
Irrigation structures	8150	Piping & seepage, embankment dams & foundations
K		Plant control & automation
KPSIM	8210	Plant foundations, investigation & analysis
L	0500	Plants, electrical
Laboratory models, tours, & shops	8560	Plants, seismic analysis
Land classification for irrigation, land resources	8210	Plastics & Polymeric Materials
Landscape architectural design	8120	Plumbing systems
Landslides geology & register Landslides, geotechnical	8320 8314	PMPs & Service Agreements Pollutant discharge elimination system permits
Large-scale dynamic & structural testing, 1- & 5-million	8530	Population at risk (flood)
pound capacity	0000	Power System Analysis & Control Group
LAST Program	8250	Power system waterways hydraulic transients
LiDAR acquisition & processing	8250	Power systems, electrical design
Life cycle cost estimates	8520	Power transformers design
Life extension	8450	Powerplant & pumping plant layout
Lift safety compliance & evaluations	8120	Powerplant automation, feedback control & system
Lighting systems	8430	testing, & optimization
Line surveys, detailed	8322	Powerplant auxiliary mechanical equipment
Liquefaction analyses	8313	Precipitation analysis, prediction, & frequency
Logic controller applications & training	8440	Pressure vessel testing & inspection
Loss of life estimates (flood)	8250	Probability analysis
Lubricating oil systems	8410	Propane & diesel engines, generators
	0450	Protective relaying
Machine condition monitoring	8450 8450	Public safety assessments Publications & Presentations
Magnetic fields exposure Masonry structures	8120	
Mass Concrete	8530	Pumps & turbines, efficiency testing
Mass Concrete Materials engineering & research	8530/8540	Pumps, hydraulic equipment Q
Materials Property Databases	8530	Quagga mussel
Mechanical Equipment Group	8410	Quaternary geology
Membrane filtration	8190	R
Metals & Metallurgy	8540	Radio telemetry
Metalwork	8120	Real-time control & data acquisition software
Meteorology & meteorological support	8250	Reclamation Auto Modified Einstein Procedure (BORAME
Microstations	8330	Reclamation of underground & surface mines
Mine sites & mineral processing facilities	8313	Recreation analysis
Modeling & models (hydraulic)	8560	Recreation site landscaping
Modernization & uprate consultations	8430	Regional Atmospheric Modeling System (RAMS)
MODFLOW & MODSIM river simulation model	8210	Reinforced concrete, civil structures
Monetary benefits of actions	8270	Reinforced concrete, hydraulic structures
Motors (electric) motor starters, adjustable speed drives	8430	Reinforced concrete, plant structures
N		Relay testing
National Environmental Policy Act (NEPA)	8270/8290/8540	Remediating
Natural soil & rock slopes & landslides	8311	Remote camera
NEXRAD precipitation analysis	8250	Remote sensing & geograph information
Non-consumptive use demands & non-use water values	8270	Remote terminal unit (RTU) (custom programmable)
Non-Destructive Testing of Materials	8540	Repayment capacity studies, economic investigations, &
Nonlinear structural analysis	8110	irrigated agriculture
Numerical analysis & modeling of earthen structures	8314	Replacement, Operations, & Maintenance (RO&M)
& foundations		Report editing, writing, graphics, publishing
Numerical modeling-fluid flow	8560	Reservoir current measurements & selective withdrawls

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Oil purification & lubrication systems	8410
Operation & maintenance manuals (water systems)	8360
Operation & maintenance training (power systems)	8440/8450
OPSTUDY	8210
Optimization, economic investigations	8270
Outlet works	8130
Paints & Protective Coatings	8540
Paleoflood Hydrology	8330
Particle imaging velocimetry	8560
Penstock & Pipe Inspection Program	8410
Petrography of Concrete/Rocks/Soils	8530
Photogeologic mapping	8320
Photogrammetry	8320
Piezometers Pipe design	8360 8312
Pipelines	8140
Pipelines, specification drawings, geotechnical	8311
Piping & seepage, embankment dams & foundations	8313
Plant control & automation	8430
Plant foundations, investigation & analysis	8320
Plants, electrical	8430
Plants, seismic analysis	8120
Plastics & Polymeric Materials Plumbing systems	8540 8410
PMPs & Service Agreements	8010
Pollutant discharge elimination system permits	8540
Population at risk (flood)	8250
Power System Analysis & Control Group	8440
Power system waterways hydraulic transients	8420
Power systems, electrical design Power transformers design	8430 8430
Powerplant & pumping plant layout	8120
Powerplant automation, feedback control & system	8440/8450
testing, & optimization	0110/0100
Powerplant auxiliary mechanical equipment	8410
Precipitation analysis, prediction, & frequency	8250
Pressure vessel testing & inspection	8410
Probability analysis Propane & diesel engines, generators	8330 8410
Protective relaying	8440
Public safety assessments	8360
Publications & Presentations	8270
Pumps & turbines, efficiency testing	8410
Pumps, hydraulic equipment	8420
Q Quanta munach	0500
Quagga mussel Quaternary geology	8560 8330
R	0000
Radio telemetry	8290/8560
Real-time control & data acquisition software	8450
Reclamation Auto Modified Einstein Procedure (BORAMEP)	8240
Reclamation of underground & surface mines	8313
Recreation analysis	8270
Recreation site landscaping Regional Atmospheric Modeling System (RAMS)	8120 8210
Reinforced concrete, civil structures	8150
Reinforced concrete, hydraulic structures	8130
Reinforced concrete, plant structures	8120
Relay testing	8440
Remediating	8313
Remote camera	8330
Remote sensing & geograph information Remote terminal unit (RTU) (custom programmable)	8260 8450
Repayment capacity studies, economic investigations, &	8270
irrigated agriculture	0_10
Replacement, Operations, & Maintenance (RO&M)	8360
Report editing, writing, graphics, publishing	8270
Reservoir current measurements & selective withdrawls	8560

Reservoir lining	8530	Soil & rock slope landslides	8314
Reservoir sedimentation & operations	8240	Soil Cement	8530
Resistivity	8330	Soil classification	8320
Restoration & river & reservoir modeling & surveys	8240	Soil dating	8330
Retaining wall	8314	Soil instrumentation analysis & layout	8360
Riparian & wetland studies	8290	Soil modification	8313
Rip-rap & erosion control, & slope protection	8314	Soil Testing	8530
Risk analyses of dams	8250	Soil, rock, & foundation material research & testing	8311
		-	
Risk analyses, assessment, & reduction dams (RATS)	8300	Soil-structure interaction modeling	8110
Risk-based profiling	8300	Solar powered pumping	8190
River basin applications & simulation models	8210	Specialized testing	8530/8540
River hydraulics	8240	Specifications	8510
River improvements & restoration plans	8140	Specifications drawings	8322
Riverware	8210	Speed governors	8410/8430/8440
Roads	8150	Spillways	8130
Rock map classifications	8320	Standard drawings	8510
Rock material testing & mechanics (geotechnical)	8312	Standard penetration tests (SPT)	8320
Rock mechanics & blasting design (geologic analysis)	8320	Standing Operating Procedures (SOPs)	8360
Rock mechanics analysis & design	8312	Statements of work (SOWs)	8510
Rock Testing	8530	Static stability & stress analyses	8311
Roller Compacted Concrete (RCC)	8530	Stochastic Analysis, Modeling & Simulation (SAMS)	8250
Rope access	8320	Stoplogs	8410
S	0020	Stream gauging	8560
Safe Drinking Water Act compliance	8190	Stream restoration	8240
Safety of Dams (SOD) inspections	8360	Streamflow forecasting	8250
Safety of Dams, economic investigations			
Safety of Existing Dams (SEED) examinations	8270	Stress measurement & nondestructive testing	8410
	8360	Strong motion monitoring & instrumentation	8330
Safety, grounding & plant electrical	8450	Structural behavior & instrumentation	8360
Satellite imagery & scanning high resolution	8250	Structural foundations	8311
Satellite network	8450	Structural modeling	8110
SCADA	8450	Structural steel	8120
Scale models	8560	Subsurface exploration & sampling	8320
Scour & degradation predictions	8240	Sump pump	8410
Sealants/Sealers	8530/8540	Surface & groundwater modeling	8210
Sealing mine shafts & adits	8313	Sustainable design features	8190
Sedimentation & river hydraulics	8240	Switchyard & substation civil structural engineering	8120
Seepage	8312	design & layout	
Seepage geochemistry	8220	Switchyards (design)	8430
Seepage measurements	8360	Synchronous motor starting & testing	8450
Seepage studies, geologic analysis	8320	Т	
Seepage/groundwater modeling	8314	Tailings dams, geotechnical engineering	8313
Seismic & seismological studies	8330	Technical climbing services for dams, spillways,	8540
Seismic analysis & design	8314	& powerplants	
Seismic evaluation of buildings	8120/8150	Technical presentations & reports	8270
Seismotectonic mapping & studies	8330	Technical publications library	8313
Selective withdrawal structures power & pump plants	8120	Tectonic settings of features	8330
Selective withdrawal structures, outlet works	8130	Temperature sensors	8410
Selective withdrawal systems	8410	Terrestrial photogrammetry	8320
Self-Consolidating Concrete (SCC)	8530	Testing machine calibration	8530
Service/unit/plant water systems	8410	Thermal properties testing	8530
Settlement & bearing capacity analyses	8311	Timber structures	8120
Settling basin design	8240	Tomography	8330
Shear strength	8320	Track existing work for accomplishment	8010
Shear wave velocity	8330	Training of foreign technical specialists	8530/8540
Sheet pile walls, cellular, & other types of cofferdams	8312	Transformer design	8430
Shops, Laboratory	8560	Transformers (testing)	8450
Shotcrete	8530	Trashracks, conveyors, & cleaning equipment	8410
Site characterization	8311	Traveling water screens	8410
Site selection for hydraulic structures	8140	Troubleshooting mechanical equipment	8410
Site selection layout design, hydraulic structures	8130	TSC Business Manager	8010
Site selection layout design, powerplants & pumping plants	8120	Tunnel communications	8450
Site-specific river basin applications	8210	Tunnel mapping	8320
Slope protection evaluation & design	8314	Tunnels	8150
Slopes	8312	Turbine design & efficiency testing	8420
Snow Estimation & Updating System (SEUS); & analysis	8250	U	
& prediction		U2RANS	8240
Social analysis	8270	Underground excavations & specifications drawings	8312
Soil & rock sampling/in situ testing	8320	Underground geologic mapping & methods	8320

Inderwater black analysis	0440
Underwater blast analysis	8110 8320
Undisturbed sampling	8410
Unit alignment, balancing, & vibration analysis	8450
Unit commitment (generation)	
Unit prices	8520
Unsteady & Unstructured Reynolds Averaged Navier-Stokes	8240
Uprate studies	8430
V	0040
Velocity estimates (modeling)	8240
Vibration testing	8530
Visitor centers & office buildings	8120
W	
Waste disposal & dumps	8313
Waste minimization & pollution prevention	8540
Wastewater Treatment	8190
Water conservation research	8560
Water conveyance structure foundations, geologic	8320
Water delivery equipment	8420
Water demand analysis	8270
Water hammer analysis	8140
Water level controls	8410
Water measurement consulting & training	8560
Water operation & maintenance program	8360
Water resources geotechnical projects	8314
Water Resources Planning & Operations	8210
Water resources, hydraulic	8560
Water surface profiles (modeling)	8240
Water temperature control devices	8410
Water, Environmental & Ecosystems Division	8200
Watershed hydrology & modeling	8210
Waterstops	8130
Weather analysis & forecasting	8250
Welding procedures	8410
Well & well field design	8320
Wetlands & site landscape design	8120
Wetlands delineation	8290
Wetlands, water conveyance features	8140
Wildlife & Fisheries studies	8290
Wireless instrumentation	8450
Writing & editing	8270
Ζ	
Zebra mussel & corbicula control	8560