Facility Type	Check Facilities for Which Respondient has Design Experience (X)
Power Plants	
Substations	
Electric Transmission	
Electric Distrbution	
Water Treatment Plants	
Water Pump Stations	
Valve Vaults	
Dams	
Wastewater Treatment Plants	
Wastewater Lift Stations	
Water Pipelines	
Natural Gas Pipelines	
Natural Gas Peaking Plants	
Engineering Services	
Engineering services	Check Services
	Responent is
vil Engineering Services	proposing to provide (X)
Structural   Equipment Foundation Designs	
Structural Equipment Foundation Designs  Structural Design - Buildings, concrete walls, concrete ceilings, retaining structures and walls, etc. Structural Design - Substations Structural Design - Transmission Towers	(X)
Structural  Equipment Foundation Designs  Structural Design - Buildings, concrete walls, concrete ceilings, retaining structures and walls, etc.  Structural Design - Substations  Structural Design - Transmission Towers  Structural Platform Design/Evaluation/Modification	(X)
Structural  Equipment Foundation Designs  Structural Design - Buildings, concrete walls, concrete ceilings, retaining structures and walls, etc.  Structural Design - Substations  Structural Design - Transmission Towers  Structural Platform Design/Evaluation/Modification  Structure Capacity Design and Evaluation	(X) X
Structural  Equipment Foundation Designs  Structural Design - Buildings, concrete walls, concrete ceilings, retaining structures and walls, etc.  Structural Design - Substations  Structural Design - Transmission Towers  Structural Platform Design/Evaluation/Modification  Structure Capacity Design and Evaluation  Footing and Foundation Design, Evaluation and Repair	(X)
Structural  Equipment Foundation Designs  Structural Design - Buildings, concrete walls, concrete ceilings, retaining structures and walls, etc.  Structural Design - Substations  Structural Design - Transmission Towers  Structural Platform Design/Evaluation/Modification  Structure Capacity Design and Evaluation	(X) X
Structural  Equipment Foundation Designs  Structural Design - Buildings, concrete walls, concrete ceilings, retaining structures and walls, etc.  Structural Design - Substations  Structural Design - Transmission Towers  Structural Platform Design/Evaluation/Modification  Structure Capacity Design and Evaluation  Footing and Foundation Design, Evaluation and Repair	(X) X
Structural Equipment Foundation Designs  Structural Design - Buildings, concrete walls, concrete ceilings, retaining structures and walls, etc. Structural Design - Substations Structural Design - Transmission Towers Structural Platform Design/Evaluation/Modification Structure Capacity Design and Evaluation Footing and Foundation Design, Evaluation and Repair Underground Transmission Duct and Vault Structure Design (up to 230kV)	(X) X
Structural  Equipment Foundation Designs  Structural Design - Buildings, concrete walls, concrete ceilings, retaining structures and walls, etc.  Structural Design - Substations  Structural Design - Transmission Towers  Structural Platform Design/Evaluation/Modification  Structure Capacity Design and Evaluation  Footing and Foundation Design, Evaluation and Repair  Underground Transmission Duct and Vault Structure Design (up to 230kV)  Grading and Drainage	(X) X
Structural  Equipment Foundation Designs  Structural Design - Buildings, concrete walls, concrete ceilings, retaining structures and walls, etc.  Structural Design - Substations  Structural Design - Transmission Towers  Structural Platform Design/Evaluation/Modification  Structure Capacity Design and Evaluation  Footing and Foundation Design, Evaluation and Repair  Underground Transmission Duct and Vault Structure Design (up to 230kV)  Grading and Drainage  Site Grading, Drainage and Erosion Control Design (Substations, Construction Sites, etc.)	(X) X
Structural  Equipment Foundation Designs  Structural Design - Buildings, concrete walls, concrete ceilings, retaining structures and walls, etc.  Structural Design - Substations  Structural Design - Transmission Towers  Structural Platform Design/Evaluation/Modification  Structure Capacity Design and Evaluation  Footing and Foundation Design, Evaluation and Repair  Underground Transmission Duct and Vault Structure Design (up to 230kV)  Grading and Drainage  Site Grading, Drainage and Erosion Control Design (Substations, Construction Sites, etc.)  Hydraulics/Hydrology	(X) X
Structural  Equipment Foundation Designs  Structural Design - Buildings, concrete walls, concrete ceilings, retaining structures and walls, etc.  Structural Design - Substations  Structural Design - Transmission Towers  Structural Platform Design/Evaluation/Modification  Structure Capacity Design and Evaluation  Footing and Foundation Design, Evaluation and Repair  Underground Transmission Duct and Vault Structure Design (up to 230kV)  Grading and Drainage  Site Grading, Drainage and Erosion Control Design (Substations, Construction Sites, etc.)  Hydraulics/Hydrology  Hydrologic/Hydraulic Studies	(X) X
Structural	(X) X
Structural  Equipment Foundation Designs  Structural Design - Buildings, concrete walls, concrete ceilings, retaining structures and walls, etc.  Structural Design - Substations  Structural Design - Transmission Towers  Structural Platform Design/Evaluation/Modification  Structure Capacity Design and Evaluation  Footing and Foundation Design, Evaluation and Repair  Underground Transmission Duct and Vault Structure Design (up to 230kV)  Grading and Drainage  Site Grading, Drainage and Erosion Control Design (Substations, Construction Sites, etc.)  Hydraulics/Hydrology  Hydrologic/Hydraulic Studies  Open Channel Hydraulics Design  Stream Restoration, Channel Stabilization, Erosion Mitigation Design	(X) X
Structural     Equipment Foundation Designs     Structural Design - Buildings, concrete walls, concrete ceilings, retaining structures and walls, etc.     Structural Design - Substations     Structural Design - Transmission Towers     Structural Platform Design/Evaluation/Modification     Structure Capacity Design and Evaluation     Footing and Foundation Design, Evaluation and Repair     Underground Transmission Duct and Vault Structure Design (up to 230kV)     Grading and Drainage     Site Grading, Drainage and Erosion Control Design (Substations, Construction Sites, etc.)     Hydraulics/Hydrology     Hydrologic/Hydraulic Studies     Open Channel Hydraulics Design     Stream Restoration, Channel Stabilization, Erosion Mitigation Design     Drop Structure Design	(X) X
Structural  Equipment Foundation Designs  Structural Design - Buildings, concrete walls, concrete ceilings, retaining structures and walls, etc.  Structural Design - Substations  Structural Design - Transmission Towers  Structural Platform Design/Evaluation/Modification  Structure Capacity Design and Evaluation  Footing and Foundation Design, Evaluation and Repair  Underground Transmission Duct and Vault Structure Design (up to 230kV)  Grading and Drainage  Site Grading, Drainage and Erosion Control Design (Substations, Construction Sites, etc.)  Hydraulics/Hydrology  Hydrologic/Hydraulic Studies  Open Channel Hydraulics Design  Stream Restoration, Channel Stabilization, Erosion Mitigation Design  Drop Structure Design  Hydraulic Structure Design (Tanks, Vaults, etc.)  FEMA Permitting	(X) X
Structural Equipment Foundation Designs  Structural Design - Buildings, concrete walls, concrete ceilings, retaining structures and walls, etc. Structural Design - Substations Structural Design - Transmission Towers Structural Platform Design/Evaluation/Modification Structure Capacity Design and Evaluation Footing and Foundation Design, Evaluation and Repair Underground Transmission Duct and Vault Structure Design (up to 230kV)  Grading and Drainage  Site Grading, Drainage and Erosion Control Design (Substations, Construction Sites, etc.)  Hydraulics/Hydrology Hydrologic/Hydraulic Studies Open Channel Hydraulics Design Stream Restoration, Channel Stabilization, Erosion Mitigation Design Drop Structure Design Hydraulic Structure Design (Tanks, Vaults, etc.)	(X) X

## Exhibit B-1 to RFP-LS-144889

Water Distribution Modelling	
Pipeline Analysis and Design	X
Pressure Reducing Valve and Air Vac Design	
Embankment Dam Design & Analysis (including slope stability, seepage analysis, etc.)	
Stormwater Improvements Design	
Roads/Pavement	
Asphalt Design for Pavement	
Hydraulic Asphalt Design (for Dams and Reservoirs)	
Miscellaneous	
Preparation of construction related permits	x
Engineering Services During Construction	x
Land development planning and engineering	
Zoning process assistance	
Construction Management Services	
Construction Oversight and Management	X
Scheduling	X
Cost Estimating	X
 Architectural Design	
Industrial and Commercial Facility Building Code Review and Studies	
Industrial and Commercial Facility Building Design	
industrial and Commercial Facility Building Design	
Geotechnical Engineering Services	
Geotechnical Design (investigation work is covered by another GES)	
Directional Drilling Design	
Foundation Design	
Retaining Wall Design  Excavation/Backfill/Compaction Design	
Excavation/ backfill/ compaction design	
Process Mechanical Engineering Services	
Water/Wastewater	
Water Treatment Process & Equipment Design	х
Water Treatment Process Analysis & Optimization Services	
Wastewater Treatment Process & Equipment Design	x
Wastewater Treatment Process Analysis & Optimization Services	
Pump Station Design	x
Pump Station Analysis & Optimization Services	
Lift Station Design	
Lift Station Analysis & Optimization Services	
Electric	
Power (Steam, Combined Cycle, Hydro) Plant Design Services of Power Boilers, Turbines, Balance of	
Plant, Water Treatment, etc.	
Power (Steam, Combined Cycle, Hydro) Plant Inspection Services of Power Boilers, Turbines, Balance of	
Plant, Water Treatment, etc.	
Power (Steam, Combined Cycle, Hydro) Plant Analysis & Optimization Services on Power Boilers,	
Turbines, Balance of Plant, Water Treatment, etc	
Design of hoisting systems (Elevators, overhead cranes, trolleys, etc.)	

## Exhibit B-1 to RFP-LS-144889

	High Energy Dining Assessments	
$\vdash$	High Energy Piping Assessments  Pipe Stress Applying and Condition Evaluation	
	Pipe Stress Analysis and Condition Evaluation	
	Mechanical Process Design and Analysis	
	Mechanical System Code Review (ASME BPVC, ASME B31.1, NBIC, ASTM, NFPA, etc.)	
	Industrial Wastewater Treatment Facilities Design, Analysis and Optimization Services	
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	Dramana Can Banking Blant Engine oring Samilans	
	Propane Gas Peaking Plant Engineering Services  Natural Gas Pipeline Design	
	Odorization System Design/Analysis Services	
	Overpressure Protection Analysis Services	
	Gate Station Design Services	
	Natural Gas Pipeline Corrosion Protection and Failure Analysis	
l l'		
	Fire protection systems evaluation, design and code cetification	
$\vdash \vdash$	Corrosion Protection and Failure Analysis	X
	Materials Testing (non-geotechnical)	
	Engineering Services During Construction	
ם;וא	ing Mechanical Engineering Services	
Bulla	HVAC System Design	
	, , ,	
	HVAC System Analysis & Optimization	
	Plumbing System Design	
	Fire Protection System Design	
Floct	rical Engineering Services	
Liecti	Arch Flash Calculations	
	Substation Design Services (all aspects up to 345kV)	
	Transmission System Design Services (115kV, 230kV, 345kV)	
	Distrubtion System Design Services (12.5kV, 34.5kV)	
	Underground Transmission Design	
	Overhead Transmission Design	
	Facility Power Supply and Distribution (Switchgear, Motor Control Centers, Transformers)	
	Load Flow Calculations and Studies	
	Short Circuit Calculations	
$\vdash$	Coordination Studies	
	Electrical System Design (Power Plants)	
$\vdash$	Electrical Wiring Schematic Development  Fault Current Protection Analysis (Power Plants)	
$\vdash$	Grounding and Bonding System Design (Power Plants and Substations)	
$\vdash$	Lighting Protection System Design (Power Plants and Substations)	
$\vdash$	Engineering Services During Construction	
	Lingineering Services During Construction	
I&C		
IQC	Power Plant Control Systems Design/Evaluation/Modification (DCS, BMS, PLC Based)	
$\vdash \vdash$		
	Power Plant Control Systems Analysis & Optimization	
$\vdash$	Water Treatment Plant Control Systems Design	
$\vdash$	Waster Treatment Plant Control Systems Analysis & Optimization	
	Wastewater Treatment Plant Control Systems Design Wastewater Treatment Plant Control Systems Analysis & Optimization	
I 1	Evvasiewater Healtheth Plant Control Avsterns ADAIVSIS & CONTINUATION	II

	PLC Logic and HMI Programming	
	Control Logic Schematic Development (SAMA, Ladder logic, etc.)	
	Control Philosophy Development	
	Field Device Review and Recommendation	
Studi	ies and Planning	
	Studies and Alternatives Analysis (Natural Gas)	
	Technical Writing of Gas Processes and Procedures related to CFR Part 192	
	Studies and Alternatives Analysis (Electric - Power Plants, Power Boilders, Turbines, Balance of Plant,	
	Water Treatment, Transmission, Distribution, Demand-Side Alternatives, Distributed Generation, etc.)	
	Studies and Alternatives Analysis (Water, Wastewater)	х
	Forensic Engineering (Water, Wastewater)	
	Forensic Engineering (Gas)	
	Forensic Engineering (Electric)	
	Land Use and Feasibility Studies	
	Water Resource Planning and Studies	
	Non-Potable Water System Planning & Studies	Х
	Water and Wastewater Standards (Material and Equipment Specifications)	
	Electric Code Compliance Studies	
	Electric Protective Relay Settings Studies	
	Grounding, Bonding, and Ground Grid Studies	
	Power Quality Analysis Studies	
	Arc Fault Potential Studies	
	Electric Planning Studies	
	Demand Side Management Research and Evaluations	
	Electric Distribution Contingency and Voltage Studies	
	Electric Integrated Resource Planning and Integration Studies	
	Transmission Operational and Planning Studies for NERC Standards Compliance	
	Transmission Planning Studies	
	Transmission Route Analysis	
	Facility Plans - Facilities are defined as the combinations of mechanical and electrical equipment,	
	process vessels, and interconnecting piping, wiring, and cable typically housed within a building or other	
	enclosure with a defined site boundary (vertical assets). Facility plans are developed through evaluations	
	and analysis of the facility to determine and plan for facility improvements and asset	
	renewal/replacements. (Example: Nixon Power Plant)	
	Program Plans - Program plans are developed through evaluations and analysis of the linear assets to	
	determine and plan for linear asset renewal/replacement activities and improvements necessary to	
	achieve performance requirements in accordance with system planning criteria, level of service	
	objectives and interdependencies with system facilities. (Example: Water Main Replacements Program)	
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	System Plans - Systems are defined as the combinations of horizontal, vertical and soft assets that work	
	together to achieve a common service purpose. System plans are developed through evaluations and	
	analysis at the system level to determine and plan for system improvements. (Example the Wastewater	
	System that includes plants and collection system)	
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Resource Plans - Resource plans include all the planning elements for the quantity, quality, type of (e.g. raw water, natural gas, coal, supply side, demand side), operating characteristics of, how, and where resources and/or service supplies (e.g. purchased power, finished water) will be brought into Utilities service territory to meet the forecasted demands, reliability, regulatory and strategic policy goals for the service over a long-term planning horizon appropriate to each service (e.g. water = 50 years). (Example: Electric Integrated Resource Plan)
Integrated Service Plans - Integrated service plans present a consolidated summary of the projects, programs, activities and other investments identified from the lower level planning documents (see above) necessary to achieve level of service and cost of service objectives for the service line including an overall 5-year prioritized and 20-year forecasted investment plan (schedule and budget).