

# Metropolitan Water District of Southern California

Templates Report by Organization Detail

Grouped By – Section

Filtered By – Engineering Services Group

Version 1

Memberships, Outside Services - Non Prof, Professional Services, Repairs & Maintenance - Outside Services, Training, Travel

## Engineering Services Group

### Design Section

Template Type	Org/Vendor/Provider	Description	Budget	Proposed	Proposed Plus One
Memberships	American Academy of Environmental Engineers - R. Bachelder	Provides updated information on environmental engineering issues.	200		
	CDHS Treatment Operator/Distribution Operator	Certification renewal	1,000	1,000	1,000
	Go To Meeting	Provides staff with technical support for various technical development on site training	500		
	Hydraulics Institute	Provides staff with latest information related to technical knowledge of hydraulics and pump standards		2,200	2,200
	ICC (International Code Council)	"For the latest state-of-the-art knowledge of building safety, codes, fire prevention, earthquakes, design methods"	400		
	IHS Global Standards	"Technical knowledge: On-Line service for ASME, AWWA, API, ANSI"	72,600	76,200	83,900
	Institute of Electrical & Electronic Engineers (IEEE)	"Technical knowledge: system design methods, industrial standards, code changes, & trends in electronics, electrical power, computers & telecommunications"	500	500	500
	International Society of Automation	Technical knowledge of latest code & design for automation & related instrumentation to ensure compliance & project cost effectiveness	100		
	National Fire Protection Association	For technical development in preparation for emergency response situations	200	200	200
	Professional Engineers License Renewals	Professional Licenses required by the District MOU and state law.	7,600	9,000	9,000
	Storm Water Pollution Preparation Plans (SWPPP)	Provides staff with latest codes related to the regulations required for design of storm water prevention pollution plans.	500	500	500
	Technical Subscriptions	"Include : Proceedings of the Institution of Mechanical Engineers, Tunneling, Modern Power Systems, Concrete Construction, Int'l Water Power & Dam Construction"	13,100	13,800	15,100
<b>Total Memberships</b>			<b>96,700</b>	<b>103,400</b>	<b>112,400</b>
Professional Services	Consultants - TBD	Provide support for State Water Project		30,000	30,000
	Various On-Call Design and Architectural Consultants	"Provide supporting engineering services to DWR, architectural, HSE (Health, Safety, Environmental) & unplanned O&M requests"	25,000	25,000	25,000
<b>Total Professional Services</b>			<b>25,000</b>	<b>55,000</b>	<b>55,000</b>
Training	ASCE Technical Seminars	"Technical knowledge: latest codes and design information in tunneling, seismic retrofitting and codes,"	1,200	1,000	1,000
	ASME Piping Design	"Technical knowledge: piping code requirements, analysis techniques"	4,700	3,400	3,400
	ASME/API Condition Assessment	Technical knowledge: condition assessment for equipment and operating systems	5,000		
	Allen-Bradley PLC Seminar	Technical knowledge: design of PLC based controlled systems	3,200	3,000	3,000
	American Concrete Institute	Technical knowledge of latest modifications to the existing concrete code	2,600	2,000	2,000
	American Institute of Steel Construction (AISC)	Technical knowledge of latest modifications to the existing steel code	1,000		
	American Society of Civil Engineers (ASCE)/WEB Seminar	Technical knowledge: latest modifications to the new ASCE7 requirements	1,300	1,000	1,000
	Asbestos Project Design Training	Technical knowledge: train staff for certification to prepare asbestos remediation specifications	900		
	CAL/OSHA - Health & Safety	Technical knowledge: latest codes & design information in health & safety engineering	300	300	300
	CAL/OSHA On-Line Training (Health & Safety)	"Technical knowledge: latest CAL/OSHA requirements in health/safety engineering, engineering standards and practices"	1,000		
	California Fire Code On-Line Training	Technical knowledge: training staff in proper design/application of fire suppression systems to meet fire code regulations	1,300		
	California Fire Code Update Seminar	Technical knowledge: latest fire protection code regulations & requirements	700	700	700
	California Hazardous Waste Management Training	"Technical knowledge: latest hazardous material storage, handling and disposal requirements"	600	600	600
	Conference for Geotechnical Engineers	Technical knowledge: latest codes and design information in geotechnical earthquake engineering	1,100		
	ETAP Seminars (Local)	Technical knowledge: electrical system studies ETAP. Update staff and train additional staff	2,000		
	Institute of Electronic & Electrical Engineers Western USA Region Technical Conference	Technical knowledge: current design in electrical systems reliability and automation control	500		

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Training	International Building Code Web Seminars	Technical knowledge: latest modification to the existing concrete code	600	600	600	
	Microsoft Inroad Training	Technical knowledge: latest civil design programming	4,800	4,000	4,000	
	PCB Regulatory Compliance	Technical knowledge: latest EPA compliance requirements	1,900			
	PSP/Physical Security Professional Training & Certification	Technical knowledge: design building security	2,000	2,000	2,000	
	Pipeline Design Seminar	"Technical knowledge: latest pipeline design methodologies, construction practices/standards"	1,600			
	SWPPP Preparation Seminar (Storm Water Prevention Pollution Plans)	Technical knowledge: latest codes related to regulations for approval - Storm Water Prevention Pollution Plans	400	400	400	
	Technical Seminars	Technical knowledge: latest process/mechanical related products and services for treatment plant facility design & maintenance		1,000	1,000	
<b>Total Training</b>			<b>38,700</b>	<b>20,000</b>	<b>20,000</b>	
Travel	ASCE Pipeline & Tunnels Conferences	Technical knowledge: latest information on new technology	2,400	2,400	2,400	
	AWWA Annual Conference & Exposition / Fluoride Standards Committee	Technical knowledge: Update information in water treatment technology and related equipment	2,700	2,700	2,700	
	Allen Bradley PLC Seminar	"Technical knowledge: PLC applications knowledge for in house expertise to ensure quality design, field supports & cost efficiency"	500	500	500	
	American Concrete Institute	Technical knowledge: latest information on concrete code	800	800	800	
	American Institute of Steel Construction (AISC)	Technical knowledge: latest information on modifications to the existing steel code	200			
	Bentley BE Conference	"Technical knowledge: latest information on industry trends, software advancements and productivity solutions"	2,200			
	California Hazardous Waste Management Training	"Technical knowledge: hazardous materials storage, handling & disposal requirements"	200	200	200	
	Chlorine Institute Annual Meeting	"Technical knowledge: latest information on improved chlorine safety through design, operations/maintenance practices"	4,100	4,100	4,100	
	DWR Support	Participation on Technical Advisory Committee for DWR planned refurbishment or replacement work	3,200	3,200	3,200	
	ETAP Seminar	Technical knowledge: electrical system studies ETAP. Update staff and train additional staff	600			
	Fire Protection Agency Seminar	Technical knowledge: fire protection and hazardous material information	800	800	800	
	Microsoft Inroad Training	Technical knowledge: latest civil design programming	800			
	North American Tunneling (NAT) Rapid Excavation & Tunneling Conference	Technical knowledge: latest techniques and design for tunneling and underground construction	1,800			
	PCB Regulatory Compliance	Technical knowledge: latest EPA compliance requirements	1,000			
	Pipeline Design Seminar	"Technical knowledge: latest pipeline design methodologies, construction practices/standards"	3,800			
	SWPPP (Storm Water Prevention Protection Plans)	Technical knowledge: latest codes related to regulations for approval - Storm Water Prevention Pollution Plans	500	500	500	
	Technical Conferences	"Technical knowledge: seismic design, earthquake resistance design, structural, construction technologies"	4,600	3,300	3,300	
	Water Environment Federation Annual Technical Conference	Technical knowledge: water quality and process design	1,500	1,500	1,500	
	<b>Total Travel</b>			<b>31,700</b>	<b>20,000</b>	<b>20,000</b>
	<b>Total Design Section</b>			<b>192,100</b>	<b>198,400</b>	<b>207,400</b>

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Memberships, Outside Services - Non Prof, Professional Services, Repairs & Maintenance - Outside Services, Training, Travel

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### Infrastructure Reliability Section

Template Type	Org/Vendor/Provider	Description	Budget	Proposed	Proposed Plus One
Memberships	ACI International	Membership provides monthly periodicals regarding recent materials testing	200	300	200
	AWS CWI License Renewals	License renewals and recertification	900	900	500
	American Concrete Institute (ACI)	American Concrete Institute	100		
	American Society for Non-Destructive Testing/ASNT	"Provides updates on technology, codes, and processes"	100	100	100
	American Society of Civil Engineers	Provides latest technical information on civil engineering technical knowledge related to dam safety	500		
	American Society of Mechanical Engineering (ASME)	"Membership provides monthly periodicals regarding latest information on welding applications, methods"	200	200	200
	American Society of Testing Materials	Provides updates on testing information for metals and updates on technology	900		
	American Welding Society	"Provides updates on technology, codes, and processes. Membership dues."	100		
	American Welding Society	American Welding Society	600	600	600
	Association of State Dam Safety Officials	Provides technical knowledge related to dam safety		400	400
	California Land Surveyors Association	"Latest knowledge and updates on issues related to land surveying, processes, county fees and legislative information"	400	1,600	1,600
	ICC (International Code Council)	Special Inspector license renewal per code requirement	200		
	Int'l Right of Way Association	Provides latest in right of way information	200	500	500
	League of California Surveying Organizations	"Provides updates on current county fees, processes, legislative changes in Land Surveyor's Act"	100	100	100
	National Association of Corrosion Engineers (	"Required to provide inspection on DWR and MSU inspection work and updates on technology, codes, and processes. Membership dues."	600	600	600
	PE License Renewals	P.E. License renewals	600	600	500
	PE Licenses	Professional Licenses required by the District MOU and state law	500		
	Professional Licenses Fees	Professional License required by the District MOU and state law.	4,300	4,300	4,300
	SME	UC Assoc of the Society for Mining & Metallurgy & Exploration	1,500		
	Society for Protective Coatings SSPC	"Provides updates on technology, codes, and processes"	300	300	300
United States Society On Dams	For information-sharing on the latest dam design and monitoring techno	800			
Urban & Regional Information Systems Assoc / URISA	Provides latest information in the use of and integration of spatial information technology	200	200	200	
<b>Total Memberships</b>			<b>13,300</b>	<b>10,700</b>	<b>10,100</b>
Outside Services - Non Prof	"Various Counties (San Bernardino, Orange, Ventura, Yolo, Sacramento, Contra Costa, Solano, San Joaquin, San Diego"	County tract/parcel/record of survey. Purchase of maps to support Core business functions.	300	300	300
	A-A Enterprises	Annual calibration of concrete compression testing equipment.	1,200	1,200	1,200
	A-A Enterprises	Calibrate Louis Harness Tester used in Materials Testing Lab. Calibrate EPOCH portable field hardness tester.	300	300	300
	Atlas Manufacturing	Maintain and calibrate the Atlas accelerated weathering machine. Time for preventive maintenance and new light calibrations.	11,000	12,800	12,800
	Calibration Services	Calibrate reference (calibration) equipment	1,200	1,200	1,200
	Fritz Instruments	Maintain operation and visual acuity of laboratory microscopes	700	700	700
	Instron Corp.	Maintain and calibrate the Instron Universal Tinseling Testing machine used to conduct physical performance tests.	4,100	4,500	4,500
	Konica Minolta Business Solutions USA Inc.	Scanner maintenance and repair	1,400		
	Micro Precision Calibration Inc.	Annual calibration of lab & field scales.	2,200	2,200	2,200
	NDT Equipment Maintenance/Calibration	Equipment maintenance and calibration	1,200	1,200	1,200
	Rayne Water	"Deionize water service for weatherometer, high humidity testing chamber and general laboratory use."	6,300	8,200	8,200
	Sy Nielson	Maintain operation and calibration of laboratory scales	200	200	200
	TBD: Calibration and Service of Hand Held Digital Electrical Meters	"Calibration & service of hand held digital electrical meters (multimeters, meggers, amp meters)."	400	400	400
	TBD: Calibration and Service of Large Electrical Test Equipment	"Calibration& service of large electrical test equipment (low resistance ohmmeters, high voltage meggers, hipot, transformer turns ratiometer)."	600	600	600

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Outside Services - Non Prof	TBD: Calibration and Service of Mechanical Test Equipment	"Calibration & service of mechanical test equipment (torque wrenches, skidmore bold tension indicator, vibration meter)."	400	400	400
	TBD: Soils/Concrete Lab Misc Equipment Repairs	"Misc. equipment repair: compression testing equipment, rebar locating equipment."	3,500		
	Various Counties-Review for Record Survey Mapping	Record of survey mapping recordation	6,000	6,000	6,000
	Various Title Companies	Preliminary title reports required for MWD knowledge of encumbrances impacting property potentially hazardous to future MWD facilities. Costs have increased.	8,000	14,000	14,000
<b>Total Outside Services - Non Prof</b>			<b>49,000</b>	<b>54,200</b>	<b>54,200</b>
Professional Services	"Consultant: Digital Map Products, First American Core Logic"	Provide property ownership and assessor data as well as recorded documents.	24,000	24,800	24,800
	Consultant Services - TBD	DAM EAP Outreach support		75,000	100,000
	Consultant Services - TBD	DAM EAP Training and exercise			100,000
	Consultant Services - TBD	DAM EAP preparation		100,000	
	Professional Laboratory Services	Provide specialized laboratory services	2,000	3,000	3,000
	U.S. Geological Survey (USGS)	Maintain our accelerographs for earthquake monitoring	50,000		
<b>Total Professional Services</b>			<b>76,000</b>	<b>202,800</b>	<b>227,800</b>
Repairs & Maintenance - Outside Services	TBD: Service Provider	"Lab Equipment repairs, maintenance and calibration of equipment not covered by maintenance contract"	3,000	3,000	3,000
	TBD: Service Provider	"Provides funds to call in a service person to maintain fax machines, printers, miscellaneous equipment not covered by a maintenance contract."	2,000	1,000	1,000
	TBD: Service Provider	"Surveyors services and other specialty vendors to maintain, repair and calibrate electronic survey equipment not covered by maintenance contract"	3,000	3,000	3,000
	TBD: Service Provider	"Surveyors services and other specialty vendors to maintain, repair and calibrate electronic survey equipment"	10,000	10,000	10,000
	TBD: Service Provider	ADAS equipment not covered by maintenance contract	1,000	10,000	10,000
<b>Total Repairs &amp; Maintenance - Outside Services</b>			<b>19,000</b>	<b>27,000</b>	<b>27,000</b>
Training	"Technical Seminar: Corrosion, Cathodic Protection, Infrastructure Protection"	"Technical knowledge of latest technologies in corrosion, cathodic protection technologies related to infrastructure protection"	3,000		
	"Technical Seminar: Corrosion, Material Performance, Infrastructure Protection"	"Technical knowledge of latest technologies in corrosion, coating & maintenance technologies related to infrastructure protection"		4,000	4,000
	"Technical Seminar: Dam Safety, Dam Design , Geotechnical Engineering"	"Technical knowledge of latest technologies in dam safety, dam design, geotechnical engineering"	3,000	12,000	4,000
	"Technical Seminar: GPS/GIS, Land Surveying, Boundary Analysis"	"Technical knowledge of latest information: boundary analysis, GPS/GIS, land surveying law, land titles, legal matters, pipeline right of way, real estate law"	4,500		
	"Technical Seminar: Geodesy, Mapping, Field Survey"	"Technical knowledge: geodesy, mapping, field survey issues"	4,300		
	ASNT Training	Training - ASNT Level III Certification	2,800		
	CWI/AWS (Certified Welding Inspector/American Welding Society)	Seminar and Exam		2,200	2,200
	Local Training and Seminars	Technical development training	500	11,000	11,000
	Phased Array Training	Provide code compliance and instrumentation training for new phased array testing and inspection	2,800		
	Technical Seminars/Conferences	Technical development training		2,500	2,500
<b>Total Training</b>			<b>20,900</b>	<b>31,700</b>	<b>23,700</b>
Travel	"Technical Seminars: Corrosion, Cathodic Protection, Infrastructure Protection"	"Technical knowledge of the latest technology, equipment, changes in field of corrosion control, pipeline protection issues"	2,800		
	ASCE International Pipeline Conference	"Technical knowledge of latest PCCP protection technology, equipment, testing methods, verification, repair"	2,000		
	American Society of Non-Destructive Testing (ASNT)	Technical knowledge and CEU credits required for ASNT Level III recertification	2,000		
	Annual Conference for US Society of Dams	Technical knowledge of latest information in dam safety surveillance	2,000	6,000	6,000

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### Infrastructure Reliability Section

Template Type	Org/Vendor/Provider	Description	Budget	Proposed	Proposed Plus One
Travel	California Land Surveyors Association (CLSA) Conference	"Conference focuses on western regional issues related to surveying and mapping practices. Knowledge of legal issues affecting survey procedures, policies, boundary and title."	2,000	2,000	2,000
	Division of Safety of Dams (DSOD) Meetings	"Technical knowledge of latest information on mandated surveillance requirements, operation certificate conditions and dam fees"	1,200	3,500	3,500
	ESRI International User Conference	"Technical knowledge of GIS technology, ARCGIS, ARCINFO"	1,100		
	Instrumentation and Measurements for Monitoring Dam Performance	MWD participation in development of latest information on instrumentation and measurements for monitoring dam performance	1,000		
	International Right of Way Association-Seminars	Technical knowledge of changes in right of way field	3,900		
	Local Technical Seminars, Training and Conferences	Technical knowledge in latest technologies in the fields of corrosion, materials testing, PCCP, forensic investigation, GPS, dam safety, surveying and mapping		7,000	7,000
	Mileage Reimbursements	Mileage reimbursements	2,300	1,000	1,000
	Miscellaneous Travel Expenses	"Miscellaneous travel expenses: i.e. Metrolink, mileage."	3,000	4,500	4,500
	Pacific Land Seminars	Technical knowledge of changes in land surveying industry	200		
	Semi Annual MWD Dam Inspections (Desert)	Lodging and meals during semi-annual inspections of MWD dams in the desert	1,000	1,000	1,000
	Technical Seminars, Training and Conferences	Technical knowledge in latest technologies in the fields of corrosion, materials testing, PCCP, forensic investigation, GPS, dam safety, surveying and mapping		10,300	7,800
<b>Total Travel</b>			<b>24,500</b>	<b>35,300</b>	<b>32,800</b>
<b>Total Infrastructure Reliability Section</b>			<b>202,700</b>	<b>361,700</b>	<b>375,600</b>

### Office of the Grp Mgr - Engineering Services

Template Type	Org/Vendor/Provider	Description	Budget	Proposed	Proposed Plus One
Memberships	American Academy of Environmental Engineers and Scientists	Provides staff with latest technical knowledge of environmental issues	200	200	200
	Engineering News Record	On-line construction cost/price index & technical knowledge of engineering advancements	300	300	300
	International Ozone Association	"International Ozone Association (G. Johnson, J. Bednarski)"	500	500	500
	PE Licenses	Professional Licenses required by the District MOU and state law		500	500
	PE Licenses	Professional Licenses required by the District MOU and state law.	400	1,400	1,400
	SME	UC Assoc of the Society for Mining & Metallurgy & Exploration		1,800	1,800
	Water Desalination Report	This newsletter is produced on a weekly basis and includes updates on	2,000	2,000	2,000
<b>Total Memberships</b>			<b>3,400</b>	<b>6,700</b>	<b>6,700</b>
Professional Services	Consultants: TBD	Technical support for the California WaterFix		250,000	250,000
	Consultants: TBD	Technical support for the regional recycled program		750,000	500,000
<b>Total Professional Services</b>				<b>1,000,000</b>	<b>750,000</b>
Training	Colorado School of Mines and Microtunneling	Technical knowledge in the field of tunneling		4,000	4,000
<b>Total Training</b>				<b>4,000</b>	<b>4,000</b>
Travel	Clean 17	Technical knowledge on the latest information in water and technology		4,000	4,000
	Colorado School of Mines and Microtunneling	Technical knowledge in the field of tunneling		2,000	2,000
	Cutting Edge Conference	Technical knowledge on advances in tunneling technology		2,500	2,500
	North American Tunneling Society	Technical knowledge on the latest information in tunneling and underground construction		2,500	2,500
	Offsite Field Meetings	"Travel for field inspections, member agency meetings, DWR/SWC"	1,500	7,500	7,500
	Offsite Meetings	"Travel for field inspections, member agencies, technical conferences, AWWA, ASCE"	9,100	11,000	15,000
	Offsite Travel	Travel in support of the California WaterFix		50,000	50,000
	State Water Contractor's Meeting	Meetings in Northern California dealing with State Water Contractor issues	3,000	7,500	7,500
<b>Total Travel</b>			<b>13,600</b>	<b>87,000</b>	<b>91,000</b>
<b>Total Office of the Grp Mgr - Engineering Services</b>			<b>17,000</b>	<b>1,097,700</b>	<b>851,700</b>

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### Planning Section

Template Type	Org/Vendor/Provider	Description	Budget	Proposed	Proposed Plus One
Memberships	"Means, Richardson and other Cost Engineering"	Publications that focuses on latest cost and productivity trends in the	2,800	3,000	3,000
	American Society of Professional Estimators	Technical knowledge & latest information construction cost estimating		700	700
	Association for the Advancement of Cost Engin	Allows 2 staff members; for technical development of staff in this are	100		
	Association for the Advancement of Cost Engineering	Allows 2 staff members; for technical development of staff in this are		100	100
	California Department of Health	Renewal of certification for T2 Treatment License	100	100	100
	Climate Registry	"Provide access to industry recognized accurate, consistent and independently verified system to collect and report greenhouse gas emissions"	500	5,500	5,500
	Construction Claims Monthly	This specialized newsletter provides summaries of court decisions rela	400	400	400
	PE License	Professional Licenses required by the District MOU and state law.	500		
	PlanetBids	Service provides vendor management, contract compliance, contract administration, off-site bidding system		13,000	13,000
	Professional Licenses	"Professional licenses, Water Treatment Distribution Certification, Land Surveyor licenses"	2,400	3,500	3,500
	Professional Licenses and other licenses	Professional Licenses required by the District MOU and state law.	1,200	2,000	2,000
	Society of Value Engineering	Technical knowledge & latest information in the field of value engineering	1,000	1,200	1,200
	Survey Monkey - Gold Level	"Online service development service. Purchase date - March 26, 2015. Billed annually."	300		
	UndergroundServiceAlert	"Provide""Call before you dig""information service in order to comply with California State Law"	57,000	70,000	75,000
<b>Total Memberships</b>			<b>66,300</b>	<b>99,500</b>	<b>104,500</b>
Professional Services	Consultants: On-call General and Technical Consultants	Technical support for facility planning	100,000		
	Consultants: TBD (Facility Planning)	"System Reliability Plan technical assistance and/or consulting support in cost estimating,site planning"	75,000		
	Consultants: TBD (Facility Planning)	Technical support for facility planning		469,000	495,000
	Consultants: TBD (Hydraulics)	Technical support in in complex surge/transient analysis in distribution system	25,000	25,000	25,000
	PCRS	Technical knowledge: required for scheduling and resource planning		24,000	
<b>Total Professional Services</b>			<b>200,000</b>	<b>518,000</b>	<b>520,000</b>
Training	AWWA	For technical development and latest information on water issues	500	500	500
	Local Seminars & Training: Construction Contract Development	"Training for maintenance & development related to spec development, advanced public works contracting strategies, contractual/regulatory construction issues for the state of California"	600	700	700
	Local Seminars: Construction Claims and Construction Contract Administration	"Training for maintenance & development related to administration of construction contracts, mitigation of exposure to construction claims"	600	800	800
	MOD I and MOD II Value Engineering Certification Training	Training for certification in value engineering		1,500	1,500
	Online Training in Project Controls	Training for maintenance & development related to project support/controls		1,000	1,000
	Online Training: Construction Cost Estimating	Training for maintenance & development related to construction contract estimating	600	600	600
	Technical Conference Hydraulics Issues	Technical knowledge: hydraulic related topics	2,000		
	Technical Seminars/Hydraulics Issues	Technical knowledge: hydraulic related topics	1,800	1,800	1,800
	Technical Seminars/Various Topics	"Technical knowledge: maintenance of staff DHS certifications, desalination, microfiltration, sustainability, reliability, WTP design"	1,700	2,700	2,700
	Training: Certificate in Construction Estimating	Training for certification in construction estimating		2,000	2,000
<b>Total Training</b>			<b>7,800</b>	<b>11,600</b>	<b>11,600</b>
Travel	American Water Works Association (AWWA) Annual Conference	Technical knowledge on latest information in water and technology	2,000	2,000	2,000
	Business Meetings w/State Agencies	Meetings w/DWR on operational and reliability issues w/State Water	4,800	4,300	4,300

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### Planning Section

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Travel	Business Meetings/Northern California/SWP Programs	"Technical knowledge: water transfers, Bay Delta, and CalFed matters"	2,600		
	Clean 17	Technical knowledge on the latest information in water and technology		4,000	4,000
	Construction Superconference	"Technical knowledge: developments in the specialized area of construction claims & disputes, mitigation of exposure to construction disputes and unsubstantiated construction claims"	800	1,200	1,200
	Miscellaneous Travel Expenses	"Miscellaneous travel related expenses: mileage, parking, meals"	1,400	2,600	2,600
	SAVE MOD 1 & MOD II	Technical knowledge: latest information on various technical aspects of value engineering		2,000	2,000
	Society of Value Engineering	Technical knowledge on latest information in value engineering	2,000	2,000	2,000
	Technical Conferences	"Technical knowledge: developing & implementing new technologies, processes & products to enhance water reliability, water supply, water quality"	1,500	2,000	2,000
	Technical Seminars	"Technical knowledge: DHS operator certification, Intergrated Area Studies, facility planning, infrastructure reliability"	800	600	600
	Technical Seminars/Hydraulic Issues	"Technical knowledge: hydraulic related topics, turbulent flow, software improvements for hydraulic issues"	1,100	300	300
	Western Water Agency Group Managers (WWAGM)	Technical knowledge on latest information in water and technology	1,200		
<b>Total Travel</b>			<b>18,200</b>	<b>21,000</b>	<b>21,000</b>
<b>Total Planning Section</b>			<b>292,300</b>	<b>650,100</b>	<b>657,100</b>

### Program Management Section

Template Type	Org/Vendor/Provider	Description	Budget	Proposed	Proposed Plus One
Memberships	Professional License	Professional Licenses required by the District MOU and state law.	3,300	3,300	3,300
<b>Total Memberships</b>			<b>3,300</b>	<b>3,300</b>	<b>3,300</b>
Repairs & Maintenance - Outside Services	TBD: Service Provider	Provides funds to call in a service person to maintain fax machines not covered by a maintenance contract.	300		
<b>Total Repairs &amp; Maintenance - Outside Services</b>			<b>300</b>		
Training	Online Training in Project Management	Training for development related to project management	1,000	3,000	3,000
<b>Total Training</b>			<b>1,000</b>	<b>3,000</b>	<b>3,000</b>
Travel	American Membrane Technology Association Conference (AMTA)	Technical knowledge: membrane technologies	1,000	1,000	1,000
	American Society of Civil Engineers Pipelines Conference	Technical knowledge: pipelines technologies	900	900	900
	American Society of Civil Engineers: Electrical Transmission & Substation Conference	Technical knowledge: latest information on electrical transmission and substation technologies	900	900	900
	California-Nevada Section Fall AWWA Conference	"Technical knowledge: state of the art information on current and future water treatment processes that may impact MWD infrastructure, latest equipment and technologies"	1,300	1,300	1,300
	California-Nevada Section Spring AWWA Conference	"Technical knowledge: state of the art information on current and future water treatment processes that may impact MWD infrastructure, latest equipment and technologies"	1,400	1,400	1,400
	International Ozone Association World Congress	"Technical knowledge: ozone technology, new technical approaches & concepts in information-sharing with ozone authorities"	1,800	1,800	1,800
<b>Total Travel</b>			<b>7,300</b>	<b>7,300</b>	<b>7,300</b>
<b>Total Program Management Section</b>			<b>11,900</b>	<b>13,600</b>	<b>13,600</b>
<b>Total Engineering Services Group</b>			<b>716,000</b>	<b>2,321,500</b>	<b>2,105,400</b>