

CITY WATER, LIGHT AND POWER
FISCAL YEAR 2018
FIVE YEAR OPERATING & MAINTENANCE PLAN

FUND	ORG	SOURCE	CAPITAL TYPE	DESCRIPTION	JUSTIFICATION	PROJECTED SPENDING (IN 000'S)				
						FY2018	FY2019	FY2020	FY2021	FY2022
101	200JAB	AUX	CEQ	EMERGENCY GENERATOR	TO ALLOW CWLP SECURITY THE CAPABILITY TO RUN AT FULL CAPACITY DURING A POWER OUTAGE.	0.0	1.1	0.0	0.0	0.0
101	200JAB	AUX	CEQ	EQUIPMENT FOR SECURITY	EQUIPMENT FOR SECURITY	0.3	1.5	1.5	1.5	1.5
101	200JAB	AUX	CEQ	LAKE PATROL/SECURITY BOAT	REPLACE 35 YEAR OLD BOAT WITH A NEW MODEL TO BE USED FOR WATER SAFETY/RESCUE. LAKE PATROL, WATER SAMPLING AND BOAT TOWS.	0.0	70.0	0.0	0.0	75.0
101	200JAB	AUX	CEQ	OUTBOARD MOTORS FOR SECURITY BOATS	REPLACE OLDER OUTBOARD MOTORS WITH 150+ HORSE POWER MOTORS.	12.0	22.0	25.0	25.0	25.0
101	200JAB	AUX	CEQ	PONTOON BOAT	REPLACE A 25 YEAR OLD PONTOON WITH A MORE STABLE BOAT. THIS WOULD BE USED FOR HAULING EQUIPMENT, BUOY WORK, LOG & BOAT TOWS AND LAKE PATROL.	0.0	0.0	75.0	0.0	0.0
101	200JAB	AUX	CI	EMERGENCY GENERATOR	TO ALLOW CWLP LAKE PATROL THE CAPABILITY TO RUN AT FULL CAPACITY DURING A POWER OUTAGE	0.0	3.0	0.0	0.0	0.0
101	200JAB	AUX	CI	MAINTENANCE AND REPAIRS FOR SURVEILLANCE EQUIPMENT	ONGOING MAINTENANCE AND REPAIRS TO COMPUTER SURVEILLANCE EQUIPMENT	0.0	3.0	0.0	3.0	0.0
101	200JAB	AUX	CI	SURVEILLANCE CAMERAS	ADDITION OF THE POWER PLANT VIDEO SURVEILLANCE BEGUN BY DHS SECURITY GRANT. ADDITIONALLY TO INSTALL VIDEO SURVEILLANCE AT ALL SUBSTATIONS, CWLP PARKS, LAUNCHES AND TROUBLE AREAS	0.0	3.8	0.0	3.8	0.0
101	200JAB	AUX	MNT	ENGINEER FIRM FOR ADA RESTROOM AT LINDSAY	HIRE AN OUTSIDE FIRM TO DRAW PLANS FOR AN ADA COMPLIANT RESTROOM AT LINDSAY BOAT LAUNCH	0.0	8.0	0.0	0.0	0.0
101	200JAB	AUX	MNT	REPLACEMENT OF BOAT DOCKS	REPLACEMENT OF BOAT DOCKS AT LINDSAY, THE BOAT HOUSE, MARINE POINT, I-55 AND SPAULDING BOAT LAUNCHES.	0.0	0.0	30.0	0.0	0.0
101	200JAB	AUX	MNT	WASTE AND RUBBISH REMOVAL	DUMPING FEES FOR REMOVAL OF DOCKS AND OTHER RUBBISH	0.0	5.0	5.0	5.0	5.0
101	200JAC	AUX	CI	PMC REMODEL AND REPAIRS	PMC REMODEL AND REPAIRS	17.3	0.0	0.0	0.0	0.0
101	200JAD	AUX	CEQ	BEACH HOUSE MAINTENANCE AS NEEDED	REPAIR / REPLACE SHUTTERS, EAVES & SOFFITS ETC. AS NEEDED AT BEACH HOUSE	10.0	10.0	10.0	10.0	10.0
101	200JAD	AUX	CEQ	CHIPPER	REPLACE CHIPPER AT L.S.M.	0.0	40.0	0.0	0.0	0.0
101	200JAD	AUX	CEQ	EAST & WEST COTTONHILL PARKS	REPLACE OLD & WORN OUT PLAYGROUND EQUIP	0.0	80.0	0.0	80.0	0.0
101	200JAD	AUX	CEQ	JOHN DEERE TRACTORS - # 678	REPLACE TRACTOR # 678 - OLD & HIGH MAINTENANCE	0.0	40.0	0.0	40.0	0.0
101	200JAD	AUX	CEQ	MOWER DECKS	REPLACE 2 MOWER DECKS	30.0	30.0	30.0	30.0	30.0
101	200JAD	AUX	CEQ	NEW RESTROOMS AT MARINE POINT & LINDSAY BOAT LAUNCH	NEW RESTROOMS AT MARINE POINT & LINDSAY BOAT LAUNCH	0.0	200.0	0.0	0.0	0.0
101	200JAD	AUX	CEQ	PADS FOR PICNIC TABLES	CONCRETE FOR PICNIC AREAS IN PARKS	0.0	10.0	10.0	10.0	10.0
101	200JAD	AUX	CEQ	RADIOS FOR PLOW TRUCKS	RADIOS FOR 4 PLOW TRUCKS	25.0	25.0	0.0	0.0	0.0
101	200JAD	AUX	CEQ	REPLACE PICKUP SPREADER	SPREADER IS OVER 10+ YEARS OLD HIGH MAINTENANCE & NEEDS TO BE REPLACED	0.0	20.0	0.0	20.0	0.0
101	200JAD	AUX	CEQ	WATER HEATERS BEACH HOUSE	REPLACE WATER HEATERS AT BEACH HOUSE	10.0	30.0	0.0	0.0	0.0
101	200JAD	AUX	CEQ	WILDLIFE SANCTUARY PLAYGROUND EQUIP	REPLACE PLAYGROUND EQUIP AT WILDLIFE SANCTUARY - OLD & NEEDS TO BE REPLACED	0.0	20.0	0.0	0.0	0.0
101	200JAD	AUX	CEQ	ZERO TURN MOWER FOR LSM	REPLACE MOWER AT L.S.M.	20.0	0.0	0.0	0.0	0.0

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						FY2018	FY2019	FY2020	FY2021	FY2022
101	200/AAAD	AUX	CI	BLDG "A" RENOVATION	REMODEL LAKE SERVICES BLDG "A"	0.0	20.0	0.0	20.0	0.0
101	200/AAAD	AUX	CI	BLDG "B" RENOVATION	REMODEL LAKE SERVICES BLDG "B"	0.0	15.0	0.0	0.0	0.0
101	200/AAAD	AUX	CI	NEW ROOF FOR LSM WEST OFFICE	NEW ROOF FOR LSM WEST OFFICE	10.0	0.0	0.0	0.0	0.0
101	200/AAAD	AUX	CI	SALT DOME	TO KEEP FLY ASH & SALT OUT OF ELEMENTS, INCREASED AREAS OF RESPONSIBILITY	0.0	25.0	0.0	25.0	0.0
101	200/AAAD	AUX	CI	WILDLIFE SANCTUARY RESTROOM	REFURBISH RESTROOM AT WILDLIFE SANCTUARY TO MEED ADA REQUIREMENTS	0.0	30.0	0.0	30.0	0.0
101	200/AAAD	AUX	MNT	CHAIN SAWS & WORK EQUIPMENT	REPLACE CHAIN SAWS & EQUIPMENT THAT IS USED ON A DAILY BASIS	10.0	10.0	10.0	10.0	10.0
102	200/JAAB	AUX	CEQ	EQUIPMENT FOR SECURITY	EQUIPMENT FOR SECURITY	1.8	8.5	8.5	8.5	8.5
102	200/JAAB	AUX	CI	EMERGENCY GENERATOR	TO ALLOW CWLP SECURITY THE CAPABILITY TO RUN AT FULL CAPACITY DURING A POWER OUTAGE.	0.0	6.4	0.0	0.0	0.0
102	200/JAAB	AUX	CI	MAINTENANCE AND REPAIRS FOR SURVEILLANCE EQUIPMENT	ONGOING MAINTENANCE AND REPAIRS TO COMPUTER SURVEILLANCE EQUIPMENT	0.0	17.0	0.0	17.0	0.0
102	200/JAAB	AUX	CI	SURVEILLANCE CAMERAS	ADDITION OF THE POWER PLANT VIDEO SURVEILLANCE BEGUN BY DHS SECURITY GRANT. ADDITIONALLY TO INSTALL VIDEO SURVEILLANCE AT ALL SUBSTATIONS, CWLP PARKS, LAUNCHES AND TROUBLE AREAS	0.0	21.3	0.0	21.3	0.0
102	200/JAAC	AUX	CI	PMC REMODEL AND REPAIRS	PMC REMODEL AND REPAIRS	8.5	0.0	0.0	0.0	0.0
101	100/BB	MAN	CEQ	INTAKE AERATION SYSTEM	INSTALLATION OF AN INTAKE AERATION SYSTEM FOR WATER INTAKE	0.0	275.0	275.0	275.0	275.0
101	100/BB	MAN	MNT	ACCESSIBLE DISTRIBUTION SYSTEM WATER QUALITY SAMPLING STATIONS TO BE INSTALLED	DISTRIBUTION SYSTEM SAMPLING STATIONS	10.0	0.0	20.0	0.0	20.0
101	100/BB	MAN	MNT	BASIN EFFLUENT SLUICE GATE REPLACEMENT AND CHANNEL REHAB	BASIN 1, 2 & 3 EFFLUENT REHAB	0.0	0.0	0.0	500.0	0.0
101	100/BB	MAN	MNT	BASIN REHAB	PAINTING AND GEAR REDUCER REPAIR FOR BASINS	0.0	500.0	150.0	0.0	0.0
101	100/BB	MAN	MNT	CONTROLS SERVICE AGREEMENT	EMERSON SURE SERVICE AGREEMENT	55.0	27.0	28.0	29.0	30.0
101	100/BB	MAN	MNT	DEMOLISH LAKESIDE	DEMOLISH LAKESIDE	0.0	2,000.0	2,000.0	0.0	0.0
101	100/BB	MAN	MNT	DIESEL GENERATOR ANNUAL MAINTENANCE	BACKUP DIESEL GENERATOR ANNUAL MAINTENANCE AND PLC REPLACEMENT	0.0	60.0	20.0	20.0	20.0
101	100/BB	MAN	MNT	HIGH SERVICE PUMP VFD ANNUAL MAINTENANCE	ANNUAL MAINTENANCE ON EACH OF THE 6 HIGH SERVICE PUMP VFD'S	25.0	50.0	50.0	50.0	50.0
101	100/BB	MAN	MNT	MODIFICATIONS OF THE LIME STORAGE PONDS TO MEET THE FLASH REGULATIONS	LIME STORAGE POND RENOVATION	0.0	500.0	2,000.0	1,000.0	0.0
101	100/BB	MAN	MNT	PAINTING OLD JACKSONVILLE TANK	PAINT OLD JACKSONVILLE TANK, INTERIOR WET AND INTERIOR DRY	0.0	0.0	0.0	0.0	500.0
101	100/BB	MAN	MNT	REBUILD FILTERS	MATERIAL WILL BE REMOVED AND REPLACED IN FILTERS	50.0	120.0	120.0	120.0	120.0
101	100/BB	MAN	MNT	TESTING AND RESEARCH TO MEET NEW LEAD, COPPER, AND OTHER DISTRIBUTION REGULATIONS	DISTRIBUTION SYSTEM DISINFECTANT & CORROSION CONTROL RESEARCH AND TESTING	130.0	30.0	30.0	30.0	30.0
101	100/BB	MAN	MNT	WASH WATER TANK REPAINTING	PAINT UNDERSIDE AND INSIDE OF WASH WATER TANK	0.0	75.0	0.0	0.0	0.0

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						FY2018	FY2019	FY2020	FY2021	FY2022
101	100BE	MAN	MINT	LEAK DETECTION & CONDITION ASSESSMENT SURVEYS	EXAMINE SYSTEM FOR LEAKS AND CONDITION ASSESSMENT OF WATER MAINS.	50.0	100.0	100.0	100.0	100.0
101	100BE	MAN	MINT	VALVE EXERCISING PROGRAM	VALVE EXERCISING PROGRAM	0.0	120.0	120.0	120.0	120.0
101	100CBD	MAN	MINT	JULIE PARTICIPATION	FEES REQUIRED AS A MEMBER OF JULIE FOR UNDERGROUND LOCATES	16.0	18.0	19.0	20.0	21.0
101	200JAAB	MAN	CI	SPAULDING LAUNCH RESTROOM	BUILD A RESTROOM TO ACCOMODATE THE HIGH TRAFFIC AT THE SPAULDING BOAT LAUNCH AND FISHING AREA	0.0	20.0	0.0	0.0	0.0
101	200JAAB	MAN	MINT	BOAT LIFTS	TO REPLACE BOAT LIFTS THAT ARE DAMAGED AND NO LONGER WORKING PROPERLY	0.0	15.0	0.0	0.0	15.0
101	200JAAB	MAN	MINT	BOAT RAILS AND CRADLES	REPAIRS AND REPLACEMENTS NEEDED AND ONGOING AT THE BOAT HOUSE.	0.0	10.0	0.0	0.0	25.0
101	200JAAB	MAN	MINT	NEW UNIFORMS FOR SECURITY PERSONNEL	REPLACE WORN UNIFORMS PER CONTRACT	2.7	3.0	3.0	3.0	3.0
101	200JAAB	MAN	MINT	REPLACE BOATING UNIFORMS	REPLACE WORN BOATMEN UNIFORMS	0.0	5.0	5.0	5.0	5.0
101	200JAAB	MAN	MINT	SECURITY BOATING EQUIPMENT	GAS TANKS, LIFE VESTS, LIGHTS, SAFETY GEAR ETC.	0.0	5.0	5.0	5.0	5.0
101	200JAAB	MAN	MINT	SIGNS	SIGN REPLACEMENT AND NEW SIGNS FOR ALL PARKS AND BOAT LAUNCHES.	5.0	4.0	4.0	4.0	4.0
101	200JAAB	MAN	MINT	SOLAR LIGHTS	INSTALL NEW SOLAR LIGHTS ON ALL HAZARDOUS AREAS AND REPLACE EXISTING BROKEN LIGHTS. THIS WOULD INCLUDE LINDSAY, BRIDGEVIEW, AND THE MARINA	0.0	15.0	0.0	15.0	15.0
101	200JAAB	MAN	MINT	WATER MARKERS	WATER MARKERS, BUOY REPLACEMENTS AND ACCESSORIES; INCLUDING CHAIN AND CABLE.	10.0	10.0	10.0	10.0	10.0
101	200JAAB	MAN	MINT	WEATHER PROOFING	WEATHER PROOFING FOR THE BOAT HOUSE AND THE BOATING STORAGE SHED	0.0	5.0	0.0	0.0	7.0
101	200AAD	MAN	MINT	TUB GRINDER - BRANCH CHIPPING PROGRAM	CHIPPING OF BRANCHES FOR LAKE SERVICES MAINTENANCE	35.0	50.0	50.0	50.0	50.0
101	200JB	MAN	CEQ	DATA CENTER REMODELING	REMODEL DATA CENTER TO PROPERLY SECURE THE DATA CENTER TO COMPLY WITH HIPAA, NERC, AND GENERAL IT AUDITS. ALSO, TO PROVIDE FOR A PROPER FIRE SUPPRESSION SYSTEM. IN ADDITION, FINALIZE REMODELING PROJECT IN ROOM MCW 87. HVAC WORK	0.0	6.0	0.0	0.0	0.0
102	100CA	MAN	MINT	LAKESIDE STRUCTURAL REHABILITATION	TO KEEP BUILDING STRUCTURE SOUND UNTIL DECISION IS MADE AS TO FUTURE GENERATION PLANS AND WATER PLANT PUMP REPLACEMENTS	50.0	50.0	50.0	50.0	50.0
102	100CAA	MAN	CEQ	BACK-UP POWER FEED - UNIT 4	BACK-UP POWER FEED FOR UNIT 4	0.0	100.0	0.0	0.0	0.0
102	100CAA	MAN	MINT	33 FGDS ANALYZE TO RELINE OR REPLACE	33 BYPASS DAMPER DUCT RELINE OR REPLACE	100.0	0.0	0.0	0.0	0.0
102	100CAA	MAN	MINT	33 PRECIP EXPANSION JOINT	REPLACE FAULTY PRECIP EXPANSION JOINT	150.0	0.0	0.0	0.0	0.0
102	100CAA	MAN	MINT	33 SO2 INLET ISOLATION DAMPERS	REPLACE SEALS AND LABOR	0.0	100.0	0.0	0.0	0.0

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						FY2018	FY2019	FY2020	FY2021	FY2022
102	100CAA	MAN	MINT	ANNUAL BOILER INSPECTION/MAINTENANCE	PARTS & LABOR REQUIRED TO PREVENT FAILURE ON BOILERS, BOTTOM ASH HOPPERS, COAL MILLS AND PIPING, AIR HEATERS, COAL SILO RELINE. 33: INSP, BURNER REPAIR, TUBE REPAIR, COAL MILL REBUILD, TUBE SHIELDING; 31-32: INSP, RESTUD, REFRACTORY TUBE REPAIR, D4 INSP	4,700.0	4,500.0	4,600.0	4,700.0	4,800.0
102	100CAA	MAN	MINT	ASBESTOS & LEAD ABATEMENT/REPLACEMENT	ASBESTOS, LEAD ABATEMENT & INSULATION REMOVAL/REPLACEMENT	150.0	300.0	300.0	300.0	300.0
102	100CAA	MAN	MINT	BOILER 33 HP STEAM HEADER ASSESSMENT	THIS HAS BEEN RECOMMENDED TO BE DONE BY ALSTOM. CURRENTLY HEADERS ARE SAGGING & OTHER PROBLEMS. STUDY AND ACCESS THE CONDITION WITH RECOMMENDATIONS.	0.0	250.0	0.0	0.0	0.0
102	100CAA	MAN	MINT	BOILER 33 HP STEAM HEADER REPLACEMENT	PER RECOMMENDATION & TO INCREASE RELIABILITY	0.0	0.0	1,000.0	0.0	0.0
102	100CAA	MAN	MINT	BOILER CHEMICAL CLEANS	TUBES CHEMICALLY CLEANED TO REMOVE DEPOSIT BUILDUP, FY20 UNIT 4	0.0	0.0	200.0	0.0	0.0
102	100CAA	MAN	MINT	BOILER MAINT CONTRACTUAL SERVICES	CONTRACTUAL SERVICES FOR MISC., UNSCHEDULED BOILER WORK AS NEEDED	1,000.0	1,000.0	1,000.0	1,000.0	1,000.0
102	100CAA	MAN	MINT	CONTRACT OIL/VIBRATION ANALYSIS	CONTRACT TO PERFORM OIL & VIBRATION ANALYSIS ON PLANT EQUIPMENT	120.0	115.0	115.0	120.0	120.0
102	100CAA	MAN	MINT	CONVEYOR BELT REPLACEMENT	REPLACEMENT OF COAL BELTS, INCLUDING UPGRADING & HIGHER QUALITY MATERIAL 2 PER YEAR	175.0	150.0	250.0	250.0	250.0
102	100CAA	MAN	MINT	COUTANT	FLOOR SLOPE	0.0	1,300.0	0.0	0.0	0.0
102	100CAA	MAN	MINT	CYBER SECURITY	TO MEET NERC CYBER SECURITY REGULATIONS	100.0	50.0	50.0	50.0	50.0
102	100CAA	MAN	MINT	EXPANSION JOINTS	MISCELLANEOUS EXPANSION JOINT REPLACEMENT	0.0	300.0	300.0	300.0	300.0
102	100CAA	MAN	MINT	FCT/RCT CONTROLS UPGRADE	UPDATE EXISTING CONTROL SYSTEMS DUE TO OBSOLETE AT FY20 FCT & FY21 RCT.	0.0	0.0	350.0	350.0	0.0
102	100CAA	MAN	MINT	FISH SCREENS (316 A & B)	REPLACE AGING FISH SCREENS	150.0	150.0	0.0	0.0	0.0
102	100CAA	MAN	MINT	LINER REPLACEMENT FOR A, B, C, & UNIT 4 BALL MILLS	LINER REPLACEMENT FOR A, B, C, & UNIT 4 BALL MILLS	0.0	300.0	300.0	200.0	0.0
102	100CAA	MAN	MINT	LOW & HIGH ENERGY PIPING INSPECTIONS	INSPECT WELDS, SEAMS AND SUPPORT SYSTEMS. REMOVE AND REPLACE SECTIONS OF ASBESTOS PIPE INSULATION- BOTH DALLMAN FLOW; ADD UNIT 4.	175.0	150.0	150.0	150.0	150.0
102	100CAA	MAN	MINT	MAJOR BOILER MAINTENANCE - SCHEDULED	REPLACE PARTS TO PREVENT FAILURES - 33 BURNERS RPL, GEN BANK PARTIAL RPL; 33: WALL BLOWER, REHEAT LOOP, STEAM COIL RPL; DALLMAN 4; 33 AIR HEATER BASKET SEAL	0.0	1,250.0	1,250.0	1,250.0	1,250.0
102	100CAA	MAN	MINT	MAJOR CLEANING PROJECTS	WATER WASHING BOILER ANF FGDS, SCR CLEANING, AIR HEATER CLEANS, EXPLOSIVE BLASTING & VACUUM SERVICES FOR ALL UNITS	1,900.0	2,750.0	2,750.0	2,750.0	2,750.0
102	100CAA	MAN	MINT	NEW GENERATOR RELAYS FOR NERC REQUIREMENTS	PURCHASE & ENGINEERING AND INSTALLATION OF NEW GENERATOR RELAYS FOR NERC REQUIREMENTS (\$15,000 FOR ENGINEERING ASSISTANCE DURING INSTALLATION)	15.0	0.0	0.0	0.0	0.0

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						FY2018	FY2019	FY2020	FY2021	FY2022
102	100CAA	MAN	MNT		PLANT MAINT CONTRACTUAL SERVICES	375.0	850.0	850.0	850.0	850.0
					CONTRACTUAL SERVICES FOR UNSCHEDULED WORK ON MISC. PIPING & PLANT MAINT AS NEEDED.					
102	100CAA	MAN	MNT		REPLACE ESC 8832'S WITH 8864'S	150.0	25.0	0.0	0.0	0.0
					CURRENT DATA LOGGERS ARE BECOMING OBSOLETE AND NO LONGER SUPPORTED. FY18 PURCHASE & FY19 INSTALL					
102	100CAA	MAN	MNT		SAFETY INSPECTIONS	30.0	30.0	30.0	30.0	30.0
					ROUTINE PRESSURE VESSEL INSPECTION IS REQUIRED BY OUR INSURANCE CARRIER (COAL BUNKERS, LIMESTONE BUNKERS AND DA)					
102	100CAA	MAN	MNT		SAFETY VALVE TESTING & REPLACEMENT	100.0	100.0	100.0	100.0	100.0
					INSURE RELIABLE OPERATION BY INSPECTION & REPAIR OF SAFETY VALVES					
102	100CAA	MAN	MNT		SCAFFOLDING EQUIPMENT AND MAINTENANCE	1,400.0	1,500.0	1,500.0	1,500.0	1,500.0
					SCAFFOLDING FOR REPAIRS					
102	100CAA	MAN	MNT		SCR CATALYST REPLACEMENT	450.0	2,200.0	1,250.0	2,200.0	2,000.0
					LAYER REPLACEMENTS (HALF EACH YEAR) FY18: 31 REFURB & INSTALL; FY19: 32, 33, & 4 REFURB & INSTALL & PURCHASE 70; FY20: 31, 32 REFURB & INSTALL & PURCHASE 60; FY21 32, 33 & 4 REFURB, INSTALL & PURCHASE 70; FY22 31, 33 REFURB & INSTALL & PURCHASE 60					
102	100CAA	MAN	MNT		SCR MAINTENANCE & MANAGEMENT	300.0	250.0	250.0	250.0	250.0
102	100CAA	MAN	MNT		SERVICE CONTRACTS	300.0	500.0	500.0	500.0	500.0
					CATALYST MANAGEMENT WESTINGHOUSE SURE SERVICE - TUNING, GE ONLINE SUPPORT - EXCITER, ESC SOFTWARE - CEMS, GAI-TRONICS, AIR COMPRESSORS (SIEMENS, ALLEN BRADLEY)					
102	100CAA	MAN	MNT		SMART PROCESS TEMPERATURE CONTROL	150.0	0.0	0.0	0.0	0.0
					APPLY SMART PROCESS FOR STEAM TEMPERATURE CONTROL AT UNIT 4. THIS WILL ELIMINATE TEMPERATURE SWINGS AND ALLOW FOR BETTER STEAM TEMP CONTROL.					
102	100CAA	MAN	MNT		TOSHIBA CONTROLS UPGRADE & ONLINE SUPPORT	725.0	0.0	0.0	0.0	0.0
					IN ORDER TO OBTAIN ONLINE SUPPORT, AN UPGRADE IS REQUIRED					
102	100CAA	MAN	MNT		TURBINE GENERATORS OVERHAUL	0.0	0.0	4,500.0	6,000.0	5,000.0
102	100CAA	MAN	MNT		UNIT 33 MILL REBUILDS	200.0	200.0	200.0	200.0	0.0
102	100CAA	MAN	MNT		UNIT 4 BAG HOUSE CLEANING/REPLACEMENT	300.0	0.0	650.0	0.0	200.0
					REBUILD MILLS INCLUDING TABLES ONE PER YEAR.					
102	100CAA	MAN	MNT		UNIT 4 CIRCULATING WATER PUMP	0.0	400.0	0.0	0.0	0.0
102	100CAA	MAN	MNT		UNIT 4 MILL REBUILDS	0.0	600.0	600.0	600.0	0.0
					REBUILD CIRC PUMP A FOR RELIABLE OPERATIONS.					
102	100CAA	MAN	MNT		UNIT 4 PA & FD FAN LUBE OIL SKID	0.0	100.0	0.0	0.0	0.0
					REBUILD MILLS INCLUDING TABLES ON A 3 YEAR INTERVAL.					
102	100CAA	MAN	MNT		33 THROTTLE & GOVERNOR VALVE INSPECTION	0.0	1,000.0	200.0	0.0	0.0
					CIRCULATING OIL SYSTEM FOR SUPPLY AIR FANS FOR LONGEVITY.					
102	100CAA	MAN	MNT		NH3 INSPECTIONS	35.0	300.0	35.0	35.0	35.0
102	100CAA	MAN	MNT		TURBINE VALVE INSPECTION - UNIT 4	0.0	500.0	500.0	0.0	100.0
					INSPECTION OF THROTTLE VALVE & GOVERNOR VALVES - EVERY 3 YEARS (NEXT FY18) & FY20 PARTS NH3 INSPECTIONS, FY19 5 YEAR INSPECTION INSPECTION OF THROTTLE VALVE: FY18 REBUILD CARTRIDGES FROM OVERHAUL; FY19 VALVES PARTS; FY20 VALVE INSPECTION; FY22 PARTS					

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						FY2018	FY2019	FY2020	FY2021	FY2022
102	100CABF	MAN	MNT	TRACTOR REPAIR AND MAINTENANCE	REPAIR AND MAINT FOR ALL TRACTORS	325.0	300.0	300.0	300.0	300.0
102	100CABG	MAN	MNT	BERM MAINTENANCE AT IMPOUNDMENT PONDS	MAINTAIN GROUNDS/STRUCTURE OF BARRIER WALL AT IMPOUNDMENT PONDS.	50.0	100.0	100.0	100.0	100.0
102	100CABS	MAN	MNT	LAB INSTRUMENTATION MAINTENANCE	CONTRACTED MAINTENANCE OF PH, CONDUCTIVITY, WET CHEMISTRY & COAL ANALYSIS EQUIPMENT INVOLVED WITH ENVIRONMENTAL COMPLIANCE MONITORING	150.0	100.0	100.0	100.0	100.0
102	100CAD	MAN	CEQ	ASSET MANAGEMENT SYSTEM IMPROVEMENTS	DEVELOP TAGGING SYSTEM AND TAG ALL EQUIPMENT	0.0	200.0	0.0	0.0	0.0
102	100CAD	MAN	CEQ	PLANT COMPUTER & NETWORK HARDWARE	PURCHASE PC'S, SERVERS, PRINTERS, TAPE DRIVES, SOFTWARE AND NETWORK HARDWARE	89.0	85.0	85.0	85.0	85.0
102	100CAD	MAN	MNT	COMPUTER HARDWARE & SOFTWARE SUPPORT	CONSULTANT FEES, ANNUAL HARDWARE MAINTENANCE AGREEMENTS, ANNUAL SOFTWARE SUPPORT AGREEMENTS (ETAPRO, PI, MICROSOFT)	90.0	110.0	110.0	110.0	110.0
102	100CAD	MAN	MNT	LIBRARY COPIER FOR DRAWINGS	REPLACE LIBRARY COPIER FOR DRAWINGS. PARTS ARE NO LONGER AVAILABLE.	0.0	36.0	0.0	0.0	0.0
102	100CAM	MAN	CEQ	HVAC SYSTEM	UPGRADES/ADDITIONS/REPLACEMENTS	50.0	100.0	100.0	100.0	100.0
102	100CAM	MAN	CEQ	SCRUBBER SPACE HEATERS	REPLACE CORRODED AND DAMAGED HEATERS USED FOR FREEZE PROTECTION	0.0	50.0	30.0	30.0	0.0
102	100CAM	MAN	CEQ	TOOLS AND TEST EQUIPMENT	SHOP TOOLS REPLACEMENT FOR THE ENTIRE MAINT DEPT	0.0	60.0	60.0	60.0	60.0
102	100CAM	MAN	MNT	33 TURBINE LUBE OIL COOLER	33 TURBINE LUBE OIL COOLER	40.0	0.0	40.0	0.0	40.0
102	100CAM	MAN	MNT	AKWIRE SCHEDULING TOOL	AKWIRE - SCHEDULING TOOL WITH MAXIMO	0.0	15.0	0.0	0.0	0.0
102	100CAM	MAN	MNT	AUXILIARY PLANT EQUIPMENT REPAIRS	REPAIR PLANT PUMPS, COMPRESSORS & FANS, FEEDWATER HEATERS, MOTORS	200.0	350.0	350.0	350.0	350.0
102	100CAM	MAN	MNT	CIRCULATING WATER PUMP REBUILD	FY18 UNIT 4	0.0	400.0	0.0	0.0	0.0
102	100CAM	MAN	MNT	D4 SCC CHAIN	D4 SCC CHAIN REPLACEMENT	200.0	0.0	0.0	0.0	0.0
102	100CAM	MAN	MNT	DALLMAN DUCTWORK REPAIR	33 BYPASS, 31/32 INLET DUCTS, 33 NORTH AND SOUTH INLET DUCTS DUE TO DETERIORATION.	0.0	250.0	250.0	250.0	250.0
102	100CAM	MAN	MNT	FCT ROUTINE MAINT	GENERAL ROUTINE MAINT; FY18: CONTROLS UPGRADE	30.0	30.0	30.0	30.0	30.0
102	100CAM	MAN	MNT	HVAC MAINTENANCE CONTRACT	MAINT CONTRACT FOR POWER PLANT	100.0	125.0	125.0	125.0	125.0
102	100CAM	MAN	MNT	ICT ROUTINE MAINT	GENERAL MAJOR MAINT MAJOR UNIT MAINTENANCE	100.0	100.0	100.0	100.0	100.0
102	100CAM	MAN	MNT	MOTOR REFURBISHING DALLMAN	MISC MOTOR REPAIR	0.0	200.0	200.0	200.0	200.0
102	100CAM	MAN	MNT	RCT - ROUTINE MAINT	GENERAL ROUTINE MAINT; FY18: CONTROLS UPGRADE	0.0	30.0	30.0	30.0	30.0
102	100CAM	MAN	MNT	S3 "B" BALL MILL PINION & BULL GEAR	S3 "B" BALL MILL PINION & BULL GEAR	105.0	0.0	0.0	0.0	0.0
102	100CAM	MAN	MNT	SCRUBBER EQPT REPLACEMENTS	FOR ALL UNITS INCLUDES: ABSORBER PIPING RPR & NOZZLE, RPL INLET DUCTS & INLET DUCT LOUVERED DAMPERS, RPL MIXERS IN ABSORBER TOWER, LIMESTONE, A&B VACUUM DRUMS, WATER TREATMENT, RELINE WELL ABSORBER, PIPING ON FGDS SURGE POND, SEAL AIR CAPACITY ON DAMPERS, BALL MILLS	750.0	800.0	750.0	750.0	750.0
102	100CAM	MAN	MNT	U4 RECYCLE PUMP UPGRADE	INSTALL ONE TOWNLEY ALL STEEL PUMP CASING ON "A" RECYCLE PUMP AT UNIT 4	200.0	0.0	0.0	0.0	0.0

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						FY2018	FY2019	FY2020	FY2021	FY2022
102	100CAM	MAN	MNT	CONTROL VALVE REPLACEMENTS	INSPECT AND REPAIR NUMEROUS VALVES	100.0	75.0	75.0	75.0	75.0
102	100CAM	MAN	MNT	MERCURY EMISSION	PURCHASE OF ABSORBER TRAPS AND ANALYSIS	65.0	75.0	75.0	75.0	75.0
102	100CAM	MAN	MNT	O2 PROBES	UPGRADE PROBES; FY18 UNIT 4 O2/CO MONITORS; 33 O2/CO MONITORS & 31 O2/PROBES	0.0	75.0	0.0	75.0	75.0
102	100CAM	MAN	MNT	SO2 LEAKS	FIND CAUSE FOR LEAKS AND REPAIR THEM	100.0	100.0	100.0	100.0	100.0
102	100CAM	MAN	MNT	SWITCH GEAR REPAIRS AND TESTING	REPAIR AND REFURBISH SWITCH GEAR IN ALL PLANTS, START TESTING AND PM PROGRAM.	25.0	50.0	50.0	50.0	50.0
102	100CB	MAN	CEQ	PERSONAL COMPUTERS	REPLACE PERSONAL COMPUTERS, VARIOUS SERVERS ETC	40.0	30.0	30.0	30.0	30.0
102	100CBAG	MAN	CI	DEMAND RESPONSE PROGRAM	FUNDING FOR DEMAND RESPONSE PROGRAM	0.0	100.0	100.0	100.0	100.0
102	100CBAG	MAN	CI	ENERGY EFFICIENCY PROGRAM FOR LOW-INCOME ELECTRIC CUSTOMERS	HELPING HOME LOW-INCOME ENERGY EFFICIENCY RETROFIT PROGRAM	150.0	100.0	100.0	100.0	100.0
102	100CBAG	MAN	CI	ENERGY EFFICIENCY PROGRAMS	INCENTIVE FOR THE INSTALLATION OF HEAT PUMP ELECTRIC WATER HEATERS	15.0	10.0	10.0	10.0	10.0
102	100CBAG	MAN	CI	ENERGY EFFICIENCY PROGRAMS	INCENTIVES FOR THE INSTALLATION OF AIR SOURCE AND GEOTHERMAL HEAT PUMPS	235.0	100.0	100.0	100.0	100.0
102	100CBAG	MAN	CI	FUNDING FOR NEW OR EXPANDED ENERGY EFFICIENCY PROGRAMS	CLEAN POWER PLAN 111D CONTINGENCY FUND	0.0	100.0	100.0	100.0	100.0
102	100CBAG	MAN	CI	RENEWABLE ENERGY THREE YEAR PROGRAM PHASE-OUT	FUNDING FOR SOLAR REWARDS INCENTIVE PROGRAM	0.0	50.0	35.0	20.0	0.0
102	100CBC	MAN	CEQ	CIP - PHYSICAL AND ELECTRONIC SECURITY MONITORING - MEDIUM	CIP - PHYSICAL AND ELECTRONIC SECURITY FOR MEDIUM ASSETS	25.0	10.0	10.0	10.0	10.0
102	100CBC	MAN	CI	DATA CABINETS AND LADDER RACKS FOR NEW SERVERS	NEW SERVER RACKS AND CABLE MGMT	0.0	3.0	3.0	3.0	3.0
102	100CBC	MAN	MNT	CALL RECORDING HARDWARE LICENSES/STORAGE/SERVER	ANNUAL ZOOM MAINTAIN IVR HARDWARE AND SERVERS	0.0	10.0	10.0	10.0	10.0
102	100CBC	MAN	MNT	CELLULAR SERVICES	CWLP CELLULAR SERVICE / WIRELESS CARDS	0.0	50.0	50.0	50.0	50.0
102	100CBC	MAN	MNT	MAINTENANCE OF SOPHOS, FIRESITE, SQL SERVER TRIPWIRE AND PAS	MAINTENANCE AND SUPPORT OF ASSOCIATED SCADA SUPPORT SOFTWARE	0.0	20.0	20.0	20.0	20.0
102	100CBC	MAN	MNT	NETWORK DESIGN AND IMPLEMENTATION SUPPORT	THIRD PARTY SUPPORT	0.0	5.0	5.0	5.0	5.0
102	100CBC	MAN	MNT	NUANCE AND GOLD / TEXT TO SPEECH SUPPORT FOR IPCC	MAINTENANCE FOR NUANCE AND GOLD COMMUNICATION SYSTEM	0.0	20.0	20.0	20.0	20.0
102	100CBC	MAN	MNT	TROUBLESHOOTING NETWORK SOFTWARE & HARDWARE, NETWORK MONITORING / CIP	FOR OPERATIONAL SUPPORT OF GRID & CIP COMPLIANCE / NETWORK TROUBLESHOOTING SOFTWARE/HARDWARE FOR PROPER MAINTENANCE OF THE CISCO AND SCADA NETWORKS, CISCO PRIME, CIP COMPLIANCE LOGGING, IPS, VULNERABILITY TEST SOFTWARE	0.0	5.0	5.0	5.0	5.0
102	100BCA	MAN	MNT	ESRI SOFTWARE MAINTENANCE	SOFTWARE MAINTENANCE ON ESRI GIS SOFTWARE	0.0	25.0	25.0	25.0	25.0
102	100BCBA	MAN	MNT	MAINTENANCE ON HOSTED ITRON SYSTEM	MAINTENANCE ON HOSTED ITRON SYSTEM	0.0	6.0	6.0	6.0	6.0
102	100BCBA	MAN	MNT	TRIMBLE MAINTENANCE	SOFTWARE MAINTENANCE ON THE TRIMBLE NIS / DMS SOFTWARE	90.0	90.0	90.0	90.0	90.0

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						FY2018	FY2019	FY2020	FY2021	FY2022
102	100CBCA	MAN	MNT	VMWARE SOFTWARE MAINTENANCE	SOFTWARE MAINTENANCE FOR THE VMWARE SOFTWARE (INFRASTRUCTURE FOR SERVERS AND SAN)	15.0	15.0	15.0	15.0	15.0
102	100CBD	MAN	CI	MISO SCHED 26A FEES - CWLP SHARE OF MISO TRANSMISSION PROJECTS	AS PART OF THE MISO MVP PROCESS, CWLP IS RESPONSIBLE FOR PAYING A PRORATA SHARE OF OTHER TRANSMISSION OWNER TRANSMISSION PROJECTS IN MISO UNDER SCHEDULE 26A. DATA BELOW IS FROM MISO MTEP 2014	2,765.0	3,264.0	3,719.0	3,783.0	3,908.0
102	100CBD	MAN	CI	MISO SCHED 26 FEES - CWLP SHARE OF MISO TRANSMISSION PROJECTS	AS PART OF THE MISO RECB PROCESS, CWLP IS RESPONSIBLE FOR PAYING A PRORATA SHARE OF OTHER TRANSMISSION OWNER TRANSMISSION PROJECTS IN MISO UNDER SCHEDULE 26. DATA BELOW IS FROM MTEP 2010 APPENDIX A3	1,217.0	1,206.0	1,193.0	1,181.0	1,168.0
102	100CBD	MAN	MNT	CRYSTAL LAKE WIND FARM PURCHASES	TO PAY FOR WIND PURCHASES FROM THE CRYSTAL LAKE WIND FARM	21,852.2	19,400.0	0.0	0.0	0.0
102	100CBD	MAN	MINT	HANCOCK WIND FARM PURCHASES	TO PAY FOR WIND PURCHASES FROM THE HANCOCK WIND FARM	1,230.0	0.0	0.0	0.0	0.0
102	100CBD	MAN	MNT	JULIE PARTICIPATION	FEES REQUIRED AS A MEMBER OF JULIE FOR UNDERGROUND LOCATES	16.0	18.0	19.0	20.0	21.0
102	100CBD	MAN	MNT	LOAD FORECAST SOFTWARE	SOFTWARE FOR FORECASTING CWLP LOAD	16.0	16.0	16.0	17.0	17.0
102	100CBD	MAN	MNT	MARKET PARTICIPANT SERVICES PROVIDER ANNUAL FEES	ANNUAL FEES FOR MARKET PARTICIPANT SERVICES ON BEHALF OF CWLP IN MISO MARKET. THE MARKET PARTICIPANT SERVICES PROVIDER DEVELOPS STRATEGIES DAILY FOR CWLP LOAD AND PERFORMS FINANCIAL RISK STUDIES.	818.0	841.0	867.0	893.0	919.0
102	100CBD	MAN	MNT	MILLER STREET EMERGENCY GENERATOR MAINTENANCE	ROUTINE ANNUAL MAINTENANCE FOR EMERGENCY GENERATOR TO BE INSTALLED AT MILLER STREET	0.0	0.0	2.0	2.0	2.0
102	100CBD	MAN	MNT	MISO SCHEDULE 10 AND SCHEDULE 10 FERC	MEMBERSHIP DUES TO MISO AND FERC COSTS PASSED ON BY MISO	444.0	540.0	550.0	560.0	570.0
102	100CBD	MAN	MNT	MISO SCHEDULE 11	FEES FOR SERVING DISTRIBUTION LOAD	15.0	16.0	16.0	16.0	16.0
102	100CBD	MAN	MNT	PURCHASE POWER	PURCHASE POWER TO COVER LOAD AND PURCHASE FOR RESALE TRANSACTIONS	7,436.5	7,700.0	8,000.0	8,200.0	8,500.0
102	100CBD	MAN	MNT	SCADA/EMS ANNUAL SUPPORT	ANNUAL VENDOR SUPPORT FOR ELECTRIC SYSTEM SCADA/EMS PLATFORM	61.0	64.0	67.0	70.0	74.0
102	100CBD	MAN	MNT	SCADA/EMS PATCH MANAGEMENT SUPPORT	ANNUAL VENDOR PATCH MANAGEMENT FOR ELECTRIC SYSTEM SCADA/EMS PLATFORM; PARTIAL FULFILLMENT OF NERC CIP REQUIREMENTS	35.0	33.0	34.0	34.0	34.0
102	100CBD	MAN	MNT	SETTLECORE SOFTWARE	SOFTWARE FOR ENERGY SETTLEMENTS ACCOUNTING	21.0	35.0	36.0	36.0	36.0
102	100CBD	MAN	MNT	WIND FORECASTING SOFTWARE	SOFTWARE FOR FORECASTING WIND GENERATION AT WIND FARM LOCATIONS	16.0	22.0	0.0	0.0	0.0
102	100CBD	MAN	MNT	TRAINING CLASSES AND MATERIALS	TRAINING CLASSES AND MATERIALS FOR ELECTRIC OPERATORS AND DISPATCHERS FOR NERC TRAINING REQUIREMENTS	43.0	43.0	44.0	45.0	46.0

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		SOURCE	TYPE			FY2018	FY2019	FY2020	FY2021	FY2022
102	100CBE	MAN	CEQ	NEW CCVT TEST SET	INCREASED NUMBERS OF CCVTS ON SYSTEM AND BETTER TESTING	0.0	0.0	10.0	0.0	0.0
102	100CBE	MAN	CI	SMALL RELAY PROJECTS	MATERIAL AND EQUIPMENT	50.0	60.0	60.0	60.0	60.0
102	100CBE	MAN	CI	TRANSMISSION RELAY UPGRADES	REPLACE AGING TRANSMISSION RELAYS	50.0	60.0	60.0	60.0	60.0
102	100CBE	MAN	MINT	DALLMAN/LAKESIDE ENERGIZED INSULATOR CLEANING	CONTRACTOR SERVICES TO CLEAN INSULATORS AND BUSHINGS AT DALLMAN AND LAKESIDE SUBSTATIONS	20.0	20.0	20.0	20.0	20.0
102	100CBF	MAN	MINT	COMPLIANCE SOFTWARE MAINTENANCE	COMPLIANCE SOFTWARE MAINTENANCE	20.0	20.0	20.0	20.0	20.0
102	100CBF	MAN	MINT	CYBER SECURITY AWARENESS	MATERIALS SUCH AS POSTERS, CHECK STUFFERS ETC TO INCREASE CYBER SECURITY AWARENESS	1.0	0.5	0.5	0.5	0.5
102	100CBF	MAN	MINT	CYBER SECURITY PERSONNEL RISK ASSESSMENT	INCREASE CYBER SECURITY AWARENESS	2.0	1.6	1.6	1.6	1.6
102	100CBF	MAN	MINT	CYBER SECURITY PHYSICAL SECURITY	BACK GROUND CHECKS FOR NEW EMPLOYEES, AND RENEWAL CHECKS FOR EXISTING EMPLOYEES	15.0	12.0	12.0	12.0	12.0
102	100CBF	MAN	MINT	CYBER SECURITY TRAINING	CYBER LOCK PROGRAM WHICH IS AN ELECTRONIC LOCK PROGRAM	5.0	1.2	1.2	1.2	1.2
102	100CBF	MAN	MINT	CYBER SECURITY VULNERABILITY ASSESSMENT	MATERIALS NECESSARY FOR STAFF TRAINING	30.0	30.0	30.0	30.0	30.0
102	100CBF	MAN	MINT	MISO LEGAL & CONSULTING FEES	3RD PARTY VULNERABILITY TESTING OF SCADA NETWORK	50.0	45.0	45.0	45.0	45.0
102	100CBF	MAN	MINT	NAES LONG TERMS SERVICE AGREEMENT	MISO LEGAL & CONSULTING FEES	15.0	10.0	10.0	10.0	10.0
102	100CBF	MAN	MINT	NERC CIP MOCK	NAES LONG TERMS SERVICE AGREEMENT	15.0	15.0	15.0	15.0	15.0
102	100CBF	MAN	MINT	NERC COMPLIANCE WORKSHOPS	NERC CIP MOCK AUDIT FOR CYBER SECURITY	5.0	1.5	1.5	1.5	1.5
102	100CBF	MAN	MINT	NERC GRIDEX PARTICIPANT & TRAVEL (BIENNIAL)	NERC COMPLIANCE WORKSHOPS	5.0	0.0	4.0	0.0	4.0
102	100CBF	MAN	MINT	NERC MOCK AUDIT	NERC GRIDEX PARTICIPANT & TRAVEL (BIENNIAL)	10.0	10.0	10.0	10.0	10.0
102	100CBF	MAN	MINT	NERC & SERC ANNUAL ASSESSMENT	MOCK AUDIT OF 693 STANDARDS SUCH AS TRAINING, FACILITY RATINGS, PLANNING AND EMERGENCY OPS STANDARDS	50.0	50.0	50.0	50.0	50.0
102	100CBF	MAN	MINT	SERC COMPLIANCE WORKSHOPS	NERC & SERC ANNUAL FEES	2.0	1.5	1.5	1.5	1.5
102	100CC	MAN	MINT	31/32 PRECIP OVERHAUL & CONTROLS UPGRADE	SERC COMPLIANCE WORKSHOPS	0.0	2,000.0	0.0	0.0	0.0
102	100CC	MAN	MINT	LAKESIDE TUNNEL ISOLATION	UPGRADE 31/32 PRECIP. CONTROLS	0.0	250.0	0.0	0.0	0.0
102	200JAAB	MAN	MINT	NEW UNIFORMS FOR SECURITY PERSONNEL	LAKESIDE TUNNEL IS NO LONGER NEEDED.	3.2	17.0	17.0	17.0	17.0
102	200JB	MAN	CEQ	DATA CENTER REMODELING	REPLACE WORN UNIFORMS PER CONTRACT	0.0	34.0	0.0	0.0	0.0
102	400FD	MAN	MINT	NPDES BIOMONITORING STUDY	REMODEL DATA CENTER TO PROPERLY SECURE THE DATA CENTER TO COMPLY WITH HIPAA, NERC, AND GENERAL IT AUDITS. ALSO, TO PROVIDE FOR A PROPER FIRE SUPPRESSION SYSTEM. IN ADDITION, FINALIZE REMODELING PROJECT IN ROOM MCW B7. HVAC WORK	0.0	20.0	20.0	0.0	0.0
					REQUIREMENT OF OUR NPDES PERMIT FOR BORON DISCHARGE TO SUGAR CREEK					