

Type of Need Dictionary

The following list describes each type of need from List 1 in the *Lists of Codes*. The “possible components” column provides the general scope of projects. It is not intended to be an all-encompassing list but rather it conveys the spectrum of possible elements of a given project. Some projects using a particular code may include all of the elements listed; others may include only some of the items.

Assume all projects include installation, engineering design, and contingency costs and all treatment projects include waste-stream handling, if appropriate. Also assume projects for complete treatment plants, wells, well houses, finished water storage, and pump stations include security components (such as fencing, among others).

<i>RAW / UNTREATED WATER SOURCE</i>						
Code	Type of Need	Possible Components	Parameters required for Modeling Cost	Required Documentation		
				New	Replacement	Rehabilitation
R1	Well	Siting, drilling, and developing a well to completion including installation of a pump and appurtenances such as sample tap, meter, air release, pressure gauge, shut-off valve, electrical controls and limited discharge piping. Includes security.	Design capacity in MGD.	Weight of evidence <ul style="list-style-type: none"> • Specific deficiency (current system capacity/demand, etc.) • Clear indication substantial portion not for growth • Info on declining aquifer, if applicable • Water quality info, if applicable 	Weight of evidence <ul style="list-style-type: none"> • Specific deficiency • Age, condition, and history of well • Info on declining aquifer, if applicable • Water quality info, if applicable 	Weight of evidence <ul style="list-style-type: none"> • Age, condition, and history of well (If WOE not available, consider well pump replacement project)

RAW / UNTREATED WATER SOURCE

Code	Type of Need	Possible Components	Parameters required for Modeling Cost	Required Documentation		
				New	Replacement	Rehabilitation
R2	Well Pump	Pump and electrical controls.	Design capacity in MGD.	Weight of evidence <ul style="list-style-type: none"> • Specific deficiency (current system capacity/demand, etc.) • Clear indication substantial portion not for growth 	Accepted with all forms of documentation.	
R3	Well House	Site work, slab, building structure sized to accommodate on-site disinfection. Projects may include construction of a small building or more elaborate facilities with a chemical feed room with ventilation, etc. Does not include disinfection or treatment. Includes security.	N/A (A unit cost will be assigned)	Weight of evidence <ul style="list-style-type: none"> • Clear indication of need (inadequate security, well appurtenances housing, etc.) • For well fields, clear indication of why fencing is inadequate 	Weight of evidence <ul style="list-style-type: none"> • Actual age, condition, and history of well houses in the system 	
R4	Eliminate Well Pit	Extend casing, install pitless adapter, modify piping connections, fill pit, grade site. Does not include well house.	N/A (A unit cost will be assigned)	Accepted with all forms of documentation.	N/A	
R5	Abandon Well	Fill casing with appropriate material, cap well.	N/A (A unit cost will be assigned)	Accepted with all forms of documentation.	N/A	

RAW / UNTREATED WATER SOURCE

Code	Type of Need	Possible Components	Parameters required for Modeling Cost	Required Documentation		
				New	Replacement	Rehabilitation
R6	Aquifer Storage and Recovery Well	Wells used to inject water into an aquifer for later recovery and use as a source of drinking water. [Wells used only for aquifer recharge without subsequent recovery from the same wellhead are not included in the DWINSA.] Components may include well construction, pump, appurtenances, and limited transmission main. Includes security.	Design capacity in MGD.	Weight of evidence • Independent Documentation Required • Specific deficiency (current system capacity/demand etc.) • Clear indication substantial portion not for growth	Weight of evidence • Specific deficiency • Actual age, condition, and history of well or system	Weight of evidence • Actual age, condition, and history of well or system
R7	Surface Water Intake	Intake structure, piping, valves; does not include pumps or impoundment structures. May include a wet well (small storage tank for raw water to be pumped to the treatment plant).	Design capacity in MGD.	Weight of evidence • Independent Documentation Required • Specific deficiency (current system capacity/demand, etc.) • Clear indication substantial portion not for growth	Weight of evidence • Specific deficiency Actual age, condition, and history of intake or system • Capacity and demand if replacing with larger structure • Multiple level withdrawal needed	Weight of evidence • Actual age, condition, and history of intake or system
R8	Raw Water Pump	Pump and electrical controls.	Design capacity in MGD.	Weight of evidence • Specific deficiency (current system capacity/demand, etc.) • Clear indication substantial portion not for growth	Accepted with all forms of documentation.	

RAW / UNTREATED WATER SOURCE

Code	Type of Need	Possible Components	Parameters required for Modeling Cost	Required Documentation		
				New	Replacement	Rehabilitation
R9	Off-Stream Raw Water Storage	Storage basin off the stream channel, constructed as a part of the treatment process, providing no more than 3 days detention time. Purpose is to address water quality issues, not water quantity issues.	Cost must be provided.	Weight of evidence • Independent Documentation Required • Specific deficiency • Water quality info, if applicable • Regulatory need, if applicable • Clear indication not for recently promulgated or proposed regulation	Accepted with all forms of documentation.	
R10	Spring Collector	Spring box or other collection device, including overflow, meter, sample tap, valves, and limited piping connection to a transmission main. Assume gravity flow; does not include pumps.	Design capacity in MGD.	Weight of evidence • Specific deficiency (current system capacity/demand, etc.) • Clear indication substantial portion not for growth	Weight of evidence • Specific deficiency • Actual age, condition, and history of spring or system • Capacity and demand if replacing with larger structure	Weight of evidence • Age, condition, and history of spring
R11	De-stratification	Some method of water circulation or aeration of a raw water source to avoid stratification of the water body.	Cost must be provided.	Accepted with all forms of documentation.		

TREATMENT - DISINFECTION

Code	Type of Need	Possible Components	Parameters required for Modeling Cost	Required Documentation		
				New	Replacement	Rehabilitation
T1	Chlorination	Gas or hypochlorite system with chemical mixing and injection systems, and safety-related components. Does not include gas scrubber.	Capacity of the plant in MGD.	Weight of evidence • Independent Documentation Required • Specific deficiency • Clear indication not for recently promulgated or proposed regulation • Water quality information, if applicable • Regulatory need, if applicable (cannot also have complete plant project)	Accepted with all forms of documentation.	
T2	Chloramination	Chemical mixing and injection systems and safety-related components. Does not include gas scrubber.	Capacity of the plant in MGD.			
T3	Chlorine Dioxide	Chemical mixing and injection systems and safety-related components.	Capacity of the plant in MGD.			
T4	Ozonation	Ozone generation and injection equipment, off-gas controls, and related safety equipment.	Capacity of the plant in MGD.			
T5	Mixed Oxidant Type Equipment	Disinfectant generation equipment, injection system, and safety-related components.	Capacity of the plant in MGD.			
T6	Ultraviolet Light Disinfection	UV lights, pipes, valves, controls, and intensity monitors.	Capacity of the plant in MGD.			
T7	Contact Basin for CT	Baffled clearwell-type contact tank with overflow, drain, and access (if appropriate); or serpentine piping for contact time. Includes valves.	Volume in MG.			
T8	Dechlorination of Treated Water	Chemical mixing and injection system, on-line chlorine residual monitoring equipment.	Capacity of the plant in MGD.			
T9	Chlorine Gas Scrubber	Gas scrubber equipment, installation, and monitoring equipment with alarms.	Capacity of the plant in MGD.			

TREATMENT – COMPLETE PLANTS (surface or ground water)

Code	Type of Need	Possible Components	Parameters required for Modeling Cost	Required Documentation			
				New	Expansion/ Upgrade	Replacement	Rehabilitation
T10	Conventional Filter Plant (complete plant)	Complete conventional plant with flocculation, sedimentation, filtration, waste handling, and the building. Includes raw water and finished water pumps, meters, chemicals and mixing, unit processes, clearwell, disinfection, waste handling, security, and controls. This code will also be used for systems using contact adsorption clarifier (CAC) technologies for the flocculation/sedimentation process.	Design capacity in MGD.				
T11	Direct or In-line Filter Plant (complete plant)	Complete direct or in-line filtration plant, including raw water and finished water pumps, meters, chemicals and mixing, unit processes, clearwell, disinfection, waste handling, security, and controls. This code is also used for pressure filtration systems.	Design capacity in MGD.	Weight of evidence • Independent Documentation Required • Specific deficiency (current system capacity/demand, information on inadequacy of existing treatment, etc.) • Clear indication substantial portion not for growth			Accepted with all forms of documentation.
T12	Slow Sand Filter Plant (complete plant)	Complete plant including filters, raw water and finished water pumps meters, clearwell, disinfection, security, and controls.	Design capacity in MGD.				
T13	Diatomaceous Earth Filter Plant (complete plant)	Complete plant and building including raw water and finished water pumps, meters, chemical and body-feed equipment, mixing and injection, filters, backwash equipment, disinfection, clearwell, waste handling, security, and controls.	Design capacity in MGD.				

TREATMENT – COMPLETE PLANTS (surface or ground water)

Code	Type of Need	Possible Components	Parameters required for Modeling Cost	Required Documentation			
				New	Expansion/ Upgrade	Replacement	Rehabilitation
T14	Membrane Technology for Particulate Removal (complete plant)	Complete plant including pre-filtration, membrane filtration equipment, waste-stream handling, raw water and finished water pumps, meters, disinfection, monitoring equipment, clearwell, security, and controls. Also may include caustic and other cleaning-chemical feed components.	Design capacity in MGD.	Weight of evidence • Independent Documentation Required • Specific deficiency (current system capacity/demand, information on inadequacy of existing treatment, etc.) • Clear indication substantial portion not for growth			Accepted with all forms of documentation.
T15	Cartridge or Bag Filtration Plant (complete plant)	Complete plant including connective piping, filter housing, raw water and finished water pumps, meters, disinfection, clearwell, controls, security, and monitoring equipment.	Design capacity in MGD.				
T16	Lime Softening (complete plant)	Complete lime softening plant including raw water and finished water pumps, meters, chemicals and mixing, unit processes, clearwell, disinfection, waste handling, security, and controls.	Design capacity in MGD.				
T17	Reverse Osmosis (complete plant)	Complete plant including pre-filtration, membrane filtration equipment, waste-stream handling, raw water and finished water pumps, meters, monitoring equipment, disinfection, clearwell, security, and controls. Also may include cleaning components.	Design capacity in MGD.				
T18	Electrodialysis (complete plant)	Complete electrodialysis plant including raw water and finished water pumps, meters, disinfection, clearwell, waste handling, security, and controls.	Design capacity in MGD.				

TREATMENT – COMPLETE PLANTS (surface or ground water)							
Code	Type of Need	Possible Components	Parameters required for Modeling Cost	Required Documentation			
				New	Expansion/ Upgrade	Replacement	Rehabilitation
T19	Activated Alumina (complete plant)	Complete activated alumina plant including raw water and finished water pumps, meters, disinfection, clearwell, security, and controls.	Design capacity in MGD.	Weight of evidence • Independent Documentation Required • Specific deficiency (current system capacity/demand, information on inadequacy of existing treatment, etc.) • Clear indication substantial portion not for growth			
T20	Manganese Green Sand (complete plant)	Complete plant including raw water and finished water pumps, meters, waste-stream handling, monitoring equipment, chemical feed, disinfection, clearwell, security, and controls.	Design capacity in MGD.				
T21	Ion Exchange (complete plant)	Complete ion exchange treatment plant including raw water and finished water pumps, meters, disinfection, clearwell, waste handling, security, and controls.	Design capacity in MGD.				
T22	Groundwater Chemical-feed (complete plant)	Complete chemical-feed treatment plant including building, meters, disinfection, security, and controls. May also include corrosion control, fluoridation, and sequestration. Does not include well pump(s), contact time, or high service pumps.	Design capacity in MGD.				
T23	Iron Adsorption (complete plant)	Complete iron adsorption plant (iron-based media – not iron removal) including raw water and finished water pumps, meters, disinfection, clearwell, waste handling, security, and controls.	Design capacity in MGD.				
T24	Aeration (complete plant)	Complete aeration treatment plant including raw water and finished water pumps, meters, complete aeration facility, disinfection, clearwell, security, and controls.	Design capacity in MGD.				

TREATMENT – Other Components/Equipment/Processes

Code	Type of Need	Possible Components	Parameters required for Modeling Cost	Required Documentation		
				New	Replacement	Rehabilitation
T30	Zebra Mussel Control	Chemical mixing and injection of oxidant at raw water intake.	Capacity of the plant in MGD.	Weight of evidence • Independent Documentation Required • Specific deficiency • Clear indication not for recently promulgated or proposed regulation • Water quality information, if applicable • Regulatory need, if applicable (cannot also have complete plant project)	Accepted with all forms of documentation.	
T31	Corrosion Control	Chemical mixing and injection system. Does not include disinfection.	Capacity of the plant in MGD.			
T32	Powdered Activated Carbon	PAC handling facility, chemical feeders, and safety equipment.	Capacity of the plant in MGD.			
T33	Aeration	Complete packed tower or counter-current tower aeration facility including disinfection, or cascading-type tray aeration.	Capacity of the plant in MGD.			
T34	Sequestering for Iron and/or Manganese	Chemical mixing and feed system, injection system. Does not include disinfection.	Capacity of the plant in MGD.			
T35	Chemical Feed	Chemical handling equipment, mixers, injection systems, and limited piping. Includes in-line mixers, chemical injectors, chemical diffusers, and other rapid-mix technologies.	Capacity of the plant in MGD.			
T36	Chemical Storage Tank	Tank only. Use other codes as needed for chemical mixing and injection systems.	Cost must be provided.			
T37	Fluoride Addition	Chemical mixing and injection system.	Capacity of the plant in MGD.			
T38	Pre-sedimentation Basin	Presedimentation basin, including any required berms, walls, chemical feed equipment, and on-site sludge removal equipment.	Capacity of the plant in MGD. (not volume of basin in MG)			

TREATMENT – Other Components/Equipment/Processes

Code	Type of Need	Possible Components	Parameters required for Modeling Cost	Required Documentation		
				New	Replacement	Rehabilitation
T39	Sedimentation/ Flocculation	Sedimentation basin (including lamella plates, tube settlers, etc.), flocculation basin with flocculators, sludge removal, and necessary valves. May also include Contact Adsorption Clarifier unit process.	Capacity of the plant in MGD.	Weight of evidence • Independent Documentation Required • Cannot also have complete plant project (included in cost models for complete plants N/R/E/H) • Specific deficiency • Clear indication not for recently promulgated or proposed regulation • Water quality information, if applicable • Regulatory need, if applicable	Accepted with all forms of documentation.	
T40	Granular Activated Carbon	GAC filter media with or without underdrains, backwash system, air scour or surface wash, and effluent troughs. Does not include regeneration facility. Includes GAC caps for filters and carbon columns.	Capacity of the plant in MGD.			
T41	Membrane Filters	Complete filters including membrane, pumps, and backwash equipment.	Capacity of the plant in MGD.			
T42	Media Filters	Complete filters including media, air scour and/or surface wash, underdrain, effluent troughs, and backwash equipment.	Capacity of the plant in MGD.			
T43	Waste Handling/ Treatment: Mechanical	Mechanical treatment plant including sludge handling/drying equipment.	Capacity of the plant in MGD.			
T44	Waste Handling/ Treatment: Non-mechanical or Connection to a Sanitary Sewer	Ponds or lagoons for storing, recycling, and/or evaporating process wastewater; or lift station and force main or gravity main to sanitary sewer.	Capacity of the plant in MGD.			
T45	Type of Treatment Unknown	Use this code when treatment is necessary but the type of treatment to be applied is unknown. The State or EPA will assign a treatment type based on Best Available Treatment (BAT) technologies for the contaminant of concern.	Capacity of the plant in MGD.			N/A

TREATMENT – Other Components/Equipment/Processes

Code	Type of Need	Possible Components	Parameters required for Modeling Cost	Required Documentation		
				New	Replacement	Rehabilitation
T46	Other	Use if none of the other treatment codes apply. Please include an explanation of the type of treatment.	Cost must be provided.	Weight of evidence • Independent Documentation Required • Cannot also have complete plant project (included in cost models for complete plants N/R/E/H) • Specific deficiency • Clear indication not for recently promulgated or proposed regulation • Water quality information, if applicable • Regulatory need, if applicable	Accepted with all forms of documentation.	

TREATMENT – Other Components/Equipment/Processes

Code	Type of Need	Possible Components	Parameters required for Modeling Cost	Required Documentation		
				New	Replacement	Rehabilitation
T50	Streaming Current Monitors	On-line monitor with or without chemical feedback loop. <i>For American Indian and Alaskan Native Village system surveys only.</i>	Number of monitors needed.	Weight of evidence • Cannot also have complete plant project (included in cost models for complete plants N/R/E/H) • Specific deficiency in existing process monitoring capabilities • Clear indication not included in another project	Accepted with all forms of documentation.	N/A
T51	Particle Counters	Bench-top or in-line particle counter. <i>For American Indian and Alaskan Native Village system surveys only.</i>	Number of particle counters needed.			
T52	Turbidity Meter	Bench-top or in-line meter, recording charts and limited piping for installation. <i>For American Indian and Alaskan Native Village system surveys only.</i>	Number of meters needed.			
T53	Chlorine Residual Monitors	Bench-top or in-line chlorine residual monitor. <i>For American Indian and Alaskan Native Village system surveys only.</i>	Number of monitors needed.			

TRANSMISSION and DISTRIBUTION

Code	Type of Need	Possible Components	Parameters required for Modeling Cost	Required Documentation			
				New	Replacement	Rehabilitation	
X1	Raw Water Transmission	Mains, trenching, bedding, backfill, site work, easements, typical road repair, control valves, air release valves.	Pipe diameter (in inches) and pipe length (in feet).	Weight of evidence • Independent Documentation Required • Clear indication substantial portion not for growth or fire • Specific deficiency (number of homes to be served, water quality problems, hydraulic issues, etc.)	Accepted with all forms of documentation within 10% limit. Independent documentation required over 10% limit. If any project relies on survey-generated documentation, the total system-wide rehabilitation and replacement rate cannot exceed 10% for the 20-year period.		
X2	Finished Water Transmission	These codes are used for any mains that transport raw water to the treatment plant, or treated water from the plant to the distribution system grid. Includes mains, trenching, bedding, backfill, site work, easements, typical road repair, control valves, air release valves.	Pipe diameter (in inches) and pipe length (in feet).				
M1	Distribution Mains	This code should be used for any mains that transport water through a piping grid serving customers. Includes mains, trenching, bedding, backfill, hydrants, valves, site work, road repair, easements, and service leads from the main to the curb stop. Does not include "transmission mains."	Pipe diameter (in inches) and pipe length (in feet).				
M2	Lead (Pb) Service Line Replacement	Service lines from the curb-stop to the building.	Number of service lines.	N/A	Accepted with all forms of documentation.	N/A	
M3	Service Lines (other than lead service lines)	Service lines from the curb-stop to the building.	Number of service lines.	• Statement of system's responsibility required • Project for replacement of 10% of service lines accepted with all forms of documentation • Weight of evidence for replacement of more than 10% of existing service lines		Rehabilitation not allowed – considered O&M	

TRANSMISSION and DISTRIBUTION

Code	Type of Need	Possible Components	Parameters required for Modeling Cost	Required Documentation		
				New	Replacement	Rehabilitation
M4	Hydrants	Hydrant lead to the transmission or distribution main, drain, hydrant, and auxiliary valve.	Number of hydrants and diameter (in inches).	Weight of evidence • Age, condition, and history of replacement (e.g., annual replacement program) if over 10% of existing hydrants or significant amount of new installation. • Clear indication not included in pipe projects.		Rehabilitation not allowed – considered O&M
M5	Valves	Includes purchase price of the butterfly, ball, air release, or other related valve and installation.	Number of valves and diameter (in inches).	Weight of evidence • Age, condition, and history of valve replacement (e.g., annual replacement program) if over 10% of existing valves or significant amount of new installation. • Clear indication not included in pipe projects.		Rehabilitation not allowed – considered O&M
M6	Control Valves	Includes pressure reducing valves (PRVs), flow control, filter effluent control valves, and altitude valves.	Number of valves and diameter (in inches).	Accepted with all forms of documentation.		
M7	Backflow Prevention Devices/ Assemblies	Device or assembly, including installation.	Number of assemblies and diameter (in inches).	• Statement of system's responsibility required • Replacement accepted with all forms of documentation • Weight of evidence if significant new installation; all forms of documentation if not significant amount of new.		Rehabilitation not allowed – considered O&M
M8	Water Meters	Individual domestic or industrial units of either manual or remote read-methods, meter boxes, valves, and computer costs for automated systems.	Number of meters, and diameter (in inches - converted to a decimal for data entry).	• Accepted with all forms of documentation up to one meter per connection • Weight of evidence if more than one meter per connection		Rehabilitation not allowed – considered O&M

FINISHED / TREATED WATER STORAGE						
Code	Type of Need	Possible Components	Parameters required for Modeling Cost	Required Documentation		
				New	Replacement	Rehabilitation
S1	Elevated/ Finished Water Storage	Complete elevated storage facility with appurtenances such as security, altitude valves, and isolation valves.	Volume in MG.	Weight of evidence • Independent Documentation Required • Clear indication substantial portion not for growth or fire • Specific deficiency (pressure issues, system hydraulics, etc.)	Weight of evidence • Actual age, condition, and history of tank • Specific deficiency (pressure issues, system hydraulics, tank material, etc.)	Accepted with all forms of documentation.
S2	Ground-level Finished/ Treated Water Storage	Complete ground level storage facility with appurtenances such as security, altitude valves, and isolation valves.	Volume in MG.			
S3	Hydro-pneumatic Storage	Complete hydropneumatic storage tank and recharge/control system, security, and building (for larger installations).	Volume in MG.	Weight of evidence • Clear indication substantial portion not for growth or fire • Specific deficiency (pressure issues, system hydraulics, etc.)	Accepted with all forms of documentation.	
S4	Cisterns	Finished water storage for individual homes. <i>For American Indian and Alaskan Native Village system surveys only.</i>	Volume in MG.	Accepted with all forms of documentation.		
S5	Cover for Existing Finished/ Treated Water Storage	Construction of a cover on an existing finished/treated water storage tank. Includes rehab of the tank.	Volume of the tank in MG.	Accepted with all forms of documentation.		N/A

PUMPING STATION AND PUMPS						
Code	Type of Need	Possible Components	Parameters required for Modeling Cost	Required Documentation		
				New	Replacement	Rehabilitation
P1	Finished Water Pumps	Pump and electrical controls.	Capacity in MGD.	Weight of evidence <ul style="list-style-type: none"> • Clear indication substantial portion not for growth or fire • Specific deficiency (pressure issues, system hydraulics, etc.) 	Accepted with all forms of documentation.	
P2	Pump Station	Booster or Raw Water. Includes clearwell, pumps, security, and building.	Capacity in MGD.	Weight of evidence <ul style="list-style-type: none"> • Independent Documentation Required • Clear indication substantial portion not for growth or fire • Specific deficiency (pressure issues, system hydraulics, etc.) 	Weight of evidence <ul style="list-style-type: none"> • Actual age, condition, and history of pump station or system 	Accepted with all forms of documentation.

OTHER INFRASTRUCTURE NEEDS

Code	Type of Need	Possible Components	Parameters required for Modeling Cost	Required Documentation		
				New	Replacement	Rehabilitation
W1	Laboratory Capital Costs	Limited to laboratory equipment, buildings, and facilities owned by the system.	Cost of equipment and facility must be provided.	Accepted with all forms of documentation.		Rehabilitation not allowed – considered O&M.
W2	Computer and Automation Costs (SCADA)	Computer control systems and SCADA control systems. Does not include computer software.	Total population served (on front cover of questionnaire)			
W3	Pump Controls/ Telemetry	Basic telemetry system of telephone-wire based signals or radio signal controls. Does not include SCADA systems (use W2 for SCADA).	Total population served (on front cover of questionnaire)			
W4	Emergency Power	Standby power generators including on-site and movable units with associated fuel tanks.	Kilowatts or horsepower must be provided.	Weight of evidence • Clear indication of need (e.g., necessary to operate critical infrastructure to maintain pressure and provide water.)	Accepted with all forms of documentation.	Rehabilitation not allowed – considered O&M.

OTHER INFRASTRUCTURE NEEDS

Code	Type of Need	Possible Components	Parameters required for Modeling Cost	Required Documentation		
				New	Replacement	Rehabilitation
W5	Security: Fencing	Project necessary to improve or maintain physical fortification such as walls, fences, gates, security lights, manhole locks, other locks, etc.	Linear feet of fencing in feet.	Weight of evidence <ul style="list-style-type: none"> • Specific deficiency (inadequately secured infrastructure, etc.) • Reasonable lengths • Clear indication security is not included as a component of other projects 	Weight of evidence <ul style="list-style-type: none"> • Specific deficiency (condition of existing fence, etc.) • Clear indication security is not included as a component of other projects 	Rehabilitation not allowed – considered O&M.
W6	Security: Physical	Project necessary to improve or maintain physical fortification such as walls, fences, gates, security lights, manhole locks, other locks, etc.	Cost must be provided.	Weight of evidence <ul style="list-style-type: none"> • System-specific cost estimate required • Clear indication security is not included as a component of other projects 		Rehabilitation not allowed – considered O&M.
W7	Security: Electronic / Cyber	Project provides some form of electronic security such as a computer firewall, closed circuit television, or an alarm system (for security purposes).	Cost must be provided.			
W8	Security: Monitoring Tools	Project provides monitoring equipment used to detect anomalies in the process streams or finished water for security purposes, not for general water quality purposes.	Cost must be provided.			
W9	Security: Other Security	Items not covered under W5 - W7 that are related to plant or system security.	Cost must be provided.			
W10	Other	Includes needs for which none of the other type of need codes applies. (One example is a runoff diversion structure.) Please include an explanation.	Cost must be provided.			