

Utah Division of Drinking Water Improvement Priority System (IPS) Program

I. Introduction

The Improvement Priority System (IPS) program is used by the Division of Drinking Water (the Division) to evaluate public water system compliance with Title R309 of the Utah Administrative Code, and to prioritize noncompliance for enforcement action. Under IPS, the Division assesses points for noncompliance or public health risk and assigns ratings to public water systems.

Three documents affect how the Division implements the IPS program:

IPS Program

The IPS program, which is this document, identifies the points associated with noncompliance and the point thresholds for assigning public water system ratings. Substantive changes to the IPS program must be approved by the Drinking Water Board.

Utah Administrative Code R309-400, Improvement Priority System and Public Water System Ratings

The IPS rule establishes the IPS program, the Division's and the Director's authority, and a public water system's responsibility. Changes to the rule must go through the official rulemaking process. The Division plans to revise R309-400 in 2019. The implementation of the revised R309-400 starts January 1, 2020.

IPS Implementation Standard Operating Procedure (SOP)

The IPS SOP outlines the Division's internal procedures for implementing the IPS program. The SOP may be modified as needed by the Division.

II. Assessment of Points

1. The Division will assess points based on noncompliance with Title R309 of the Utah Administrative Code, noncompliance with a directive or order issued by the director, or operational practices or performance that may result in a threat to public health.
2. In general, the Points assessed for each category of health threat are as follows:
 - a) Low health risk – 5 points
 - b) Minor potential to cause harm – 15 points
 - c) Moderate potential to cause harm; chronic monitoring violations – 25 points
 - d) Significant potential to cause harm – 50 points
 - e) Acute monitoring violations – 100 points
 - f) Imminent health threat (automatic not-approved status) – 200 Points

3. **Appendix A** of the IPS program contains a table specifying the number of points associated with each instance of noncompliance with a drinking water rule requirement and noncompliance with a directive or order issued by the Director.
4. **Appendix B** of the IPS program contains a table specifying the number of points associated with each instance of noncompliance with a drinking water rule requirement when a violation is issued.
5. The Division may remove points when a water system submits written documentation of correction of a deficiency and/or violation with supporting evidence or when the noncompliance is resolved. In some cases, a site inspection by the Division staff may be required.

III. Public Water System Rating Thresholds

1. The Division will rate a public water system based on the point thresholds shown below or based on a written agreement with the Director.
2. The point thresholds for rating a public water system as Approved or Not Approved are different for each type of water system and are given below:
 - Community Water System – 150 points
 - Non-transient Non-community Water System – 120 points
 - Transient Non-community Water System – 100 points
3. The Division will assign Ratings to water systems in accordance with R309-400 as follows:
 - **Approved** – the total number of points is below the point threshold
 - **Not Approved** – the total number of points is equal to or greater than the point threshold or the Director finds a threat to public health
 - **Corrective Action** – a water system has entered into a written agreement with the Director to resolve its deficiencies according to a compliance schedule

IV. Changes to the IPS Program

1. Substantive changes to the IPS program must be reviewed and approved by the Drinking Water Board.
2. The Division may make non-substantive changes to the IPS Program.

Date of Approval by Drinking Water Board: August 27, 2019

Appendix A

Utah Division of Drinking Water R309-400 Rule - IPS Program Deficiency Points Table

Deficiency Code	Deficiency Description (Proposed)	Deficiency Type (Proposed)	Points (Proposed)	Rule Reference
General				
G004	INSUFFICIENT SYSTEM OWNERSHIP INFORMATION	MIN	15	R309-100-4(3)
A025	ADMINISTRATIVE ISSUES - SEE R309-400 FOR DETAILS	MIN	15	R309-400-11
A050	ADMINISTRATIVE ISSUES - SEE R309-400 FOR DETAILS	SIG	25	R309-400-11
A075	ADMINISTRATIVE ISSUES - SEE R309-400 FOR DETAILS	SIG	50	R309-400-11
A100	ADMINISTRATIVE ISSUES - SEE R309-400 FOR DETAILS	SIG	100	R309-400-11
A150	ADMINISTRATIVE ISSUES - SEE R309-400 FOR DETAILS	SIG	200	R309-400-11
A226	AFTER THE FACT OP ISSUED FOR FACILITY THAT DID NOT FOLLOW APPROVAL PROCESS. CODE REMAINS UNTIL FACILITY IS REPLACED OR UPDATED.	REC	0	R309-500-6
Management (Cross Connection Control, Operator Certification, Emergency Response, etc.)				
M020	CROSS CONNECTION EXISTS IN WATER SYSTEM	SIG	50	R309-105-12(1)
M003	CCC-LACKS LOCAL AUTHORITY	MIN	15	R309-105-12(2)
M004	CCC-NO ANNUAL PUBLIC EDUCATION OR AWARENESS	MIN	15	R309-105-12(2)
M005	CCC-LACKS OPERATOR TRAINING	MIN	15	R309-105-12(2)
M006	CCC-LACKS WRITTEN RECORDS OF CCC ACTIVITIES	MIN	15	R309-105-12(2)
M007	CCC-LACKS ON-GOING ENFORCEMENT IMPLEMENTATION	MIN	15	R309-105-12(2)
M008	SERVICE CONNECTIONS IN DISTRIBUTION SYSTEM RELY ON INDIVIDUAL HOME BOOSTER PUMP DUE TO INADEQUATE PRESSURE	SIG	50	R309-550-11(3)
M009	IMPROPER BACTERIOLOGICAL SAMPLE COLLECTING AND HANDLING	MIN	15	R309-215-4(3)
M014	CONFIRMED PATTERN OF UNSATISFACTORY DRINKING WATER QUALITY SAMPLES	SIG	25	R309-200-6, R309-105-18, R309-215-4(3)
M015	CONFIRMED WATER BORNE ILLNESS AS A RESULT OF PUBLIC DRINKING WATER CONTAMINATION	SIG	50	R309-105-18(f), R309-215-11
M016	HISTORY OF VERIFIED CUSTOMER COMPLAINTS REGARDING DRINKING WATER QUALITY OR QUANTITY	SIG	50	R309-105-18(f), R309-215-11
M017	WATER STAGNATION, BIOFILM OR SEDIMENTS CONTRIBUTES TO DRINKING WATER CONTAMINATION	SIG	50	R309-200-6, R309-105-18, R309-215-4(3)
M018	INTERRUPTION OF TREATMENT PROCESS CONTRIBUTES TO DRINKING WATER CONTAMINATION	SIG	50	R309-200-6, R309-105-18, R309-215-5, R309-215-4(3)
C001	SYSTEM DIRECT RESPONSIBLE CHARGE OPERATORS NOT CERTIFIED AT THE REQUIRED LEVEL	SIG	50	R309-105-11, R309-300-5(3)
C011	TREATMENT PLANT NOT OPERATED BY OPERATOR CERTIFIED TO THE REQUIRED LEVEL	SIG	50	R309-525-7(3)
M019	FAILURE TO SUBMIT REQUIRED WATER USE DATA ANNUALLY OR VERIFY DATA ACCURACY	MIN	15	R309-105-15(1)
G001	UNAPPROVED FACILITY IN SERVICE	SIG	50	R309-100-5(2), R309-500-6, R309-500-9, R309-500-9(2) and (3)
G006	USING UNAPPROVED TREATMENT PROCESS OR CHEMICAL	SIG	50	R309-105-6(1)(a), R309-500-6
G007	CONSTRUCTION WITHOUT PRIOR APPROVAL	SIG	50	R309-100-5(1), R309-105-6(1)(a), R309-500-6, R309-500-9, R309-500-9(3)
S001	UNAPPROVED SOURCE IN SERVICE	SIG	200	R309-515-6(1)(5), R309-515-7(7), R309-550-9(2) and (3)
M025	UNAPPROVED INTERCONNECTION WITH ANOTHER WATER SYSTEM	SIG	50	R309-550-9(3)
M026	LACKS OPERATIONAL RECORDS	SIG	25	R309-105-13

Deficiency Code	Deficiency Description (Proposed)	Deficiency Type (Proposed)	Points (Proposed)	Rule Reference
Minimum Sizing				
V031	SYSTEM LACKS UP TO 20% OF REQUIRED STORAGE CAPACITY (FIRE DEMAND NOT INCLUDED)	MIN	15	R309-510-8(1)(a)
V034	SYSTEM LACKS MORE THAN 20% OF REQUIRED STORAGE CAPACITY (FIRE DEMAND NOT INCLUDED)	SIG	50	R309-510-8(1)(a)
VF34	SYSTEM LACKS REQUIRED STORAGE CAPACITY DUE TO FIRE DEMAND BUT HAS SOP FOR FOLLOWING FIRE INCIDENT	MIN	15	R309-510-8(1)(b)
VF35	SYSTEM LACKS REQUIRED STORAGE CAPACITY DUE TO FIRE DEMAND AND LACKS SOP FOR FOLLOWING FIRE INCIDENT	SIG	25	R309-105-8(3), R309-510-8(1)(b)
S091	SYSTEM LACKS UP TO 20% OF REQUIRED SOURCE CAPACITY	MIN	15	R309-510-7(1)
S094	SYSTEM LACKS MORE THAN 20% OF REQUIRED SOURCE CAPACITY	SIG	50	R309-510-7(1)
Source Development				
TGR 7	COM SYSTEM SERVING 100 OR MORE CONNECTIONS LACKS REDUNDANT SOURCE	SIG	50	R309-515-4(3)
S033	COM SYSTEM WITHOUT NATURALLY FLOWING SOURCES LACKS BACKUP POWER FOR AT LEAST ONE WATER SOURCE	SIG	25	R309-515-6(2)(a)
S013	WELL LACKS THE REQUIRED WELL SEAL	SIG	50	R309-515-6(6)(i)
S005	WELL WITH PITLESS ADAPTOR NOT WATER TIGHT OR NOT PROTECTED AGAINST VANDALISM	SIG	50	R309-515-6(12)(c)
S006	END OF WELL CASING VENT LACKS NO. 14 SCREEN	SIG	25	R309-515-6(12)(d)(iii)
S007	WELL CASING VENT NOT DOWNTURNED			R309-515-6(12)(d)(iii)
S008	WELL CASING VENT LACKS AIR GAP AGAINST CONTAMINATION			R309-515-6(12)(d)(iii)
S028	AIR RELEASE VACUUM RELIEF VALVE PIPING NOT DOWNTURNED			R309-515-6(12)(d)(v)
S029	END OF AIR RELEASE VACUUM RELIEF VALVE PIPING LACKS NO. 14 SCREEN			R309-515-6(12)(d)(v)
S030	END OF AIR RELEASE VACUUM RELIEF VALVE PIPING LACKS A CLEARANCE OF AT LEAST 6 INCHES			R309-515-6(12)(d)(v)
SL01	WELL THAT PUMPS DIRECTLY TO DISTRIBUTION LACKS A MEANS TO RELEASE TRAPPED AIR	MIN	5	R309-515-6(12)(d)(v)
S003	WELL CASING TERMINATES LESS THAN 12 INCHES ABOVE FLOOR OR LESS THAN 18 INCHES ABOVE GROUND SURFACE	SIG	25	R309-515-6(6)(b)(vi), R309-515-6(12)(c)(ii), R309-515-6(13)(a)
S095	UNFINISHED WELL NOT CAPPED SECURELY	SIG	50	R309-515-6(8)(a), R655-4-14.1
S009	WELL PUMP-TO-WASTE LINE LACKS A CLEARANCE OF AT LEAST 12 INCHES	SIG	25	R309-515-6(12)(d)(ix)
S010	END OF WELL PUMP-TO-WASTE LINE LACKS NO. 4 SCREEN	SIG	25	R309-515-6(12)(d)(ix)
S011	WELL PUMP-TO-WASTE LINE NOT DOWNTURNED	SIG	25	R309-515-6(12)(d)(ix)
S015	WELL LACKS A MEANS TO MEASURE WATER LEVELS PERIODICALLY	MIN	5	R309-515-6(12)(e), R309-515-6(12)(c)(vi)
S002	WELL HOUSE NOT PROTECTED AGAINST VANDALISM	SIG	25	R309-105-10(5)
S020	WELL HEAD OR WELL HOUSE NOT PROTECTED FROM FLOODING	SIG	25	R309-515-6(6)(b)(vi), R309-515-6(12)(d)(iii), R309-515-6(13)(a) to (d)
S021	CROSS CONN EXISTS IN WELL HOUSE OR AT WELL HEAD	SIG	50	R309-105-12(1), R309-515-6(12)(d)(iii)
S022	WELL HOUSE LACKS A MEANS OF PROVIDING DRAINAGE	MIN	5	R309-515-6(13)(b)
S023	NO SMOOTH NOSED SAMPLING TAP ON WELL DISCHARGE PIPING	MIN	5	R309-515-6(12)(d)(iv)
S024	NO CHECK VALVE ON WELL DISCHARGE PIPING	MIN	5	R309-515-6(12)(d)(iv)
S025	NO PRESSURE GAUGE ON WELL DISCHARGE PIPING	MIN	5	R309-515-6(12)(d)(iv)
S026	NO FLOW METER ON WELL DISCHARGE PIPING	MIN	5	R309-515-6(12)(d)(iv)
S027	NO SHUTOFF VALVE ON WELL DISCHARGE PIPING	MIN	5	R309-515-6(12)(d)(iv)
S031	PUMP LUBRICANTS NOT ANSI/NSF 60 CERTIFIED MINERAL OIL	SIG	25	R309-105-10(7), R309-515-6(6)(a)

Deficiency Code	Deficiency Description (Proposed)	Deficiency Type (Proposed)	Points (Proposed)	Rule Reference
S150	GWUDI OR SURFACE WATER SOURCE LACKS SURFACE WATER TREATMENT	SIG	200	R309-505-5(1)(a) to (d), R309-505-7(1), R515-7(3), R309-520-6(3)(a) and (4)
SS19	SPRING IMPERMEABLE LINER INADEQUATE OR NOT INTACT	SIG	50	R309-515-7(7)(b)
SS22	SPRING IMPERVIOUS SOIL COVER INADEQUATE OR NOT INTACT	SIG	50	R309-515-7(7)(b)
L014	SPRING COLLECTION BOX NOT PRESENT	MIN	5	R309-515-7(7)(c)
SS13	SPRING BOX LID NOT LOCKED	SIG	25	R309-515-7(7)(d), R309-545-14 (3)
SS09	SPRING BOX LID NOT SHOEBOX STYLE			R309-515-7(7)(d), R309-545-14 (2)
SS10	SPRING BOX LID LACKS A GASKET			R309-515-7(7)(d), R309-545-14 (2)
SS20	UNSEALED OPENINGS IN SPRING COLLECTION BOX	SIG	50	R309-515-7(7)(d), R309-545-14 (1)
SS12	SPRING BOX ENTRY NOT ELEVATED AT LEAST 18 INCHES ABOVE EARTHEN COVER	MIN	15	R309-515-7(7)(d), R309-545-14 (1),
SS11	SPRING BOX LACKS A MEANS OF VENTING	MIN	5	R309-515-7(7)(d), R309-545-15
SS16	SPRING BOX VENT NOT DOWNTURNED	SIG	25	R309-515-7(7)(d), R309-545-15(1)
SS17	SPRING BOX VENT LACKS NO. 14 SCREEN			R309-515-7(7)(d), R309-545-15(4)
SS18	END OF SPRING BOX VENT IS AT LEAST 24 INCHES ABOVE EARTHEN COVER			R309-515-7(7)(d), R309-545-15(23)
SS15	HEIGHT OF SPRING BOX VENT NOT SIZED TO PREVENT BLOCKAGE IN WINTER			R309-515-7(7)(d), R309-545-15(3)
SS23	SPRING BOX LACKS A MEANS OF PROVIDING OVERFLOW	MIN	15	R309-515-7(7)(d), R309-545-13(1)
SS14	SPRING BOX OVERFLOW OR DRAIN LACKS A FREE FALL OF 12 TO 24 INCHES	SIG	25	R309-515-7(7)(d), R309-545-13
SS04	SPRING BOX OVERFLOW LACKS NO. 4 SCREEN			R309-515-7(7)(d), R309-545-10(1)(d), R309-545-13(3)
SS02	SPRING COLLECTION AREA NOT FENCED	MIN	15	R309-515-7(7)(e)
SS03	SPRING LACKS A DIVERSION CHANNEL OR BERM TO DIVERT RUNOFF AWAY FROM SPRING COLLECTION AREA	MIN	15	R309-515-7(7)(g)
SS01	LACKS A PERMANENT DEVICE FOR MEASURING SPRING FLOW	MIN	5	R309-515-7(7)(h)
SS06	PONDING WITHIN SPRING COLLECTION AREA	SIG	25	R309-515-7(7)(i)
SS07	DEEP ROOTED VEGETATION IN SPRING COLLECTION AREA	SIG	25	R309-515-7(7)(f)
SS08	ROOTS IN SPRING COLLECTION PIPES	SIG	25	R309-105-10(4)(a)
SS24	HERBICIDE, PESTICIDES OR ALGICIDES APPLIED ARE NOT ANSI NSF 60 CERTIFIED AND WITHOUT APPROVAL	SIG	50	R309-105-10(4)(b), R309-515-8(1)(b) and (3)
Disinfection Methods				
TD75	LACKS SPARE PARTS OR BACKUP EQUIPMENT FOR CHLORINATOR	MIN	15	R309-520-7(1)(k)(i and ii), R309-520-6(1)(a) and (c)
TD41	CLEANING CHEMICALS DO NOT MEET ANSI NSF 60 STANDARD	SIG	50	R309-520-8(3)(j)
TD90	ADDING CHEMICALS THAT DO NOT MEET ANSI NSF 60 STANDARD			R309-520-6(2)
TD47	QUENCHING CHEMICALS DO NOT MEET ANSI NSF 60 STANDARD			R309-520-9(4)(h)
TD78	LACKS EQUIPMENT FOR CHLORINE RESIDUAL TESTING	MIN	15	R309-520-7(1)(j)
TD22	LACKS BACKUP POWER SUPPLY FOR REQUIRED DISINFECTION	SIG	25	R309-520-7(1)(k)(iii)
TD42	UNABLE TO ISOLATE UV REACTOR FOR MAINTENANCE	MIN	15	R309-520-8(3)(g)
TD43	LACKS BACKUP POWER SUPPLY FOR REQUIRED UV DISINFECTION	SIG	25	R309-520-8(3)(l)
TD44	LACKS REDUNDANT PRIMARY DISINFECTION METHOD IF UV REACTOR IS OFF SPEC	SIG	25	R309-520-8(3)(m)
TD25	DISINFECTION IS REQUIRED BUT DISINFECTION IS INTERMITTENT OR NOT CONTINUOUS	SIG	50	R309-520-6(1)(a)
TD39	UV FACILITY LACKS STANDARD OPERATING PROCEDURES	MIN	15	R309-520-8(4)(b)
TD97	INSUFFICIENT UV DOSE FOR REQUIRED TREATMENT	SIG	25	R309-525-8(1)(b)(iv), R309-215-15(19)(d)

Deficiency Code	Deficiency Description (Proposed)	Deficiency Type (Proposed)	Points (Proposed)	Rule Reference
TD08	CHLORINATOR BUILDING NOT HEATED, LIGHTED OR VENTILATED	MIN	15	R309-520-7(1)(l)
TD69	INCOMPATIBLE CHEMICALS STORED IN CHLORINE ROOM	SIG	25	R309-520-7(1)(m)
TD91	CHLORINATOR LACKS A MEANS TO MEASURE FLOW OF TREATED WATER	SIG	25	R309-520-7(1)(i)
TD01	CONTINUOUS DISINFECTION IS REQUIRED BUT CHLORINATOR LACKS AUTOMATIC SWITCHOVER	MIN	15	R309-520-7(2)(a), R309-520-6(1)
TD09	CHLORINE ROOM EXHAUST FAN SUCTION NOT LOCATED NEAR FLOOR	MIN	15	R309-520-7(2)(d)(iii)
TD10	CHLORINE ROOM AIR INLET NOT LOCATED NEAR CEILING THROUGH WALL LOUVERS	MIN	15	R309-520-7(2)(d)(iv)
TD12	LACK SEPARATE SWITCHES FOR FAN AND LIGHTS NEAR CHLORINE ROOM ENTRANCE	MIN	15	R309-520-7(2)(d)(v)
TD13	CHLORINE VENT LINE NOT DISCHARGED OUTSIDE ABOVE GRADE OR LACKS NO. 14 SCREEN	SIG	25	R309-520-7(2)(e)
TD17	CHLORINE CYLINDERS ARE EXPOSED TO DIRECT SUN OR EXCESSIVE HEAT	SIG	25	R309-520-7(2)(f)(ii)
TD92	GAS CHLORINATION EQUIPMENT NOT SECURE OR LACKING PROPER HOUSING	SIG	25	R309-520-7(2)(f)(i)
TD15	CHLORINE CYLINDERS NOT RESTRAINED	SIG	25	R309-520-7(2)(h)
TD16	INADEQUATE DISINFECTION FOR GROUND WATER SOURCE REQUIRED TO DISINFECT	SIG	200	R309-520-6(3)(b) and (4)
TD02	LACKS EQUIPMENT TO MEASURE CHLORINE FEED RATE	SIG	25	R309-520-7(1)(c), R309-520-7(2)(i)
TD21	CROSS CONNECTION EXISTS IN CHLORINE MAKEUP WATER SUPPLY LINE	SIG	25	R309-520-7(1)(h)(i)
TD14	NO AMMONIA HYDROXIDE SOLUTION FOR CHLORINE LEAK DETECTION	MIN	15	R309-520-7(2)(l)(i)
TD04	150-POUND CYLINDER FACILITY LACKS IMMEDIATE ACCESS TO NIOSH RESPIRATOR	SIG	25	R309-520-7(2)(k)(ii)
TD06	1-TON CYLINDER FACILITY LACKS IMMEDIATE ACCESS TO NIOSH SELF-CONTAINED BREATHING APPARATUS	SIG	25	R309-520-7(2)(k)(i)
TD05	1-TON CYLINDER FACILITY LACKS A LEAK REPAIR KIT APPROVED BY CHLORINE INSTITUTE	SIG	25	R309-520-7(2)(l)(ii)
TD19	1-TON CYLINDER FACILITY LACKS CONTINUOUS CHLORINE LEAK DETECTION EQUIPMENT	SIG	25	R309-520-7(2)(l)(iii)
TD23	1-TON CYLINDER FACILITY LACKS ALARMS ON CONTINUOUS CHLORINE LEAK DETECTOR	SIG	25	R309-520-7(2)(l)(iv)
TD93	1-TON CYLINDER OPERATING AREA LACKS GAS SCRUBBER	SIG	25	R309-520-7(2)(b)
TD18	1-TON CYLINDER CHLORINE ROOM VENTILATION NOT INDEPENDENT OR SEPARATE FROM VENTILATION FOR THE REST OF THE TREATMENT PLANT	SIG	25	R309-520-7(2)(d)(iv)
TD66	HYPOCHLORITE FACILITY LACKS A MEANS OF EMERGENCY EYEWASH	SIG	25	R309-520-7(3)(a)(i)
TD67	HYPOCHLORITE LIQUID NOT PROTECTED FROM EXCESSIVE HEAT OR DIRECT SUNLIGHT	MIN	5	R309-520-7(3)(a)(ii)
TD68	NO RECORDS KEPT TO MINIMIZE USE OF DECAYED HYPOCHLORITE SOLUTION	MIN	5	R309-520-7(3)(b)
TD24	HYPOCHLORITE TANK LACKS A LIQUID LEVEL INDICATOR	MIN	5	R309-525-11(6)(a)(iv)(A)
TD29	HYPOCHLORITE FACILITY DOES NOT HAVE ADEQUATE SPILL CONTAINMENT	MIN	5	R309-525-11(6)(a)(iv)(B)
TD70	CHLORINE SOLUTION MAKEUP WATER NOT OF DRINKING WATER QUALITY	SIG	25	R309-520-7(1)(h)(i), R309-520-7(3)(c)(iii)

Deficiency Code	Deficiency Description (Proposed)	Deficiency Type (Proposed)	Points (Proposed)	Rule Reference
TD71	HYDROGEN GAS FROM ONSITE HYPOCHLORITE GENERATION ELECTROLYTIC CELL NOT VENTED UPWARD TO OUTSIDE	SIG	50	R309-520-7(3)(c)(iv)
TD72	HYPOCHLORITE TABLETS NOT STORED IN COOL, DRY AND VENTED AREA	MIN	5	R309-520-7(3)(d)(iii)
TD73	HYPOCHLORITE TABLETS STORED WITH COMBUSTIBLE MATERIALS OR ACIDS	SIG	25	R309-520-7(3)(d)(iii)
TD26	FAIL TO PROVIDE DISINFECTION CT OR REPORT INACCURATE CT FOR REQUIRED TREATMENT	SIG	50	R309-505-5(3), R309-505-7(2), R309-520-4 and 6(4)
TD46	OZONE FACILITY LACKS ADEQUATE OZONE RESIDUAL ANALYZERS FOR CT DETERMINATION	MIN	15	R309-520-9(7)(c)
TD48	OZONE OFFGAS BLOWERS NOT FUNCTIONING	MIN	15	R309-520-9(5)(b)
TD49	OZONE OFFGAS DESTRUCTION UNITS NOT PROVIDED OR NOT FUNCTIONING	MIN	15	R309-520-9(5)(a)
TD31	CHLORINE DIOXIDE FACILITY LACKS EMERGENCY EYEWASH AND SAFETY SHOWER	SIG	25	R309-520-10(3)(b)(viii)
TD32	NO EMERGENCY SHUTOFF FOR CHLORINE DIOXIDE GENERATOR	SIG	25	R309-520-10(3)(b)(ix)
TD34	NO AMBIENT CHLORINE DIOXIDE SENSOR OR ALARM OR WARNING LIGHT	SIG	25	R309-520-10(3)(b)(v)
TD35	CHLORINE DIOXIDE OPERATING AREA LACKS WASH DOWN WATER	MIN	15	R309-520-10(3)(b)(xvi)
TD28	COMBUSTIBLE OR REACTIVE MATERIALS STORED IN CHLORINE DIOXIDE OPERATING AREA	SIG	50	R309-520-10(5)(a)
TD30	PERSONAL PROTECTIVE EQUIPMENT NOT AVAILABLE NEAR AND OUTSIDE OF CHLORINE DIOXIDE OPERATING AREA	SIG	25	R309-520-10(5)(c)
TD33	CHLORINE DIOXIDE OPERATING AREA AND SOLUTION TANKS NOT PROPERLY VENTED	MIN	15	R309-520-10(5)(k), R309-525-11(8)(b)(vi)
TD36	CHLORINE DIOXIDE OPERATING AREA TEMPERATURES NOT MAINTAINED BETWEEN 60 AND 100 DEGREES F	MIN	15	R309-520-10(5)(d)
TD37	CHLORINE DIOXIDE FACILITY LACKS SAFETY AND EMERGENCY MANUAL OR OPERATORS LACKS SAFETY AND EMERGENCY TRAINING	SIG	25	R309-520-10(5)(f)
Surface Water Treatment and Miscellaneous Treatment Methods				
TD58	STANDBY POWER NOT AVAILABLE FOR PRIMARY TREATMENT PROCESS FOR SURFACE WATER TREATMENT	SIG	25	R309-525-7(5), R309-525-11(7)(b)(iii)
TD59	BACKUP EQUIPMENT OR SPARE PARTS NOT AVAILABLE FOR CRITICAL TREATMENT ITEMS	SIG	25	R309-525-7(6), R309-525-11(7)(b)(i) and (iii)
TC15	PIPING NOT COLOR CODED OR LABELED TO INDICATE CONTAINED LIQUID AND FLOW DIRECTION	MIN	5	R309-525-8
TD79	NO MEANS TO MEASURE FLOW RATE OF WATER TREATED	SIG	25	R309-525-11(7)(d)(iii) and R309-252-11(7)(a)(i)
TD99	NO MEANS TO MEASURE QUANTITIES OF CHEMICALS USED	SIG	25	R309-525-11(7)(d)(iv)
TD62	NO SAMPLE TAP FOR EACH UNIT OPERATION OF TREATMENT	MIN	15	R309-525-18
TD74	PERSONAL PROTECTIVE EQUIPMENT, SAFETY SHOWER OR EYEWASH NOT PROVIDED	SIG	25	R309-525-11(10)(b)
TD76	INADEQUATE MEANS TO MAINTAIN DISINFECTANT RESIDUAL IN THE WATER ENTERING THE DISTRIBUTION SYSTEM	SIG	25	R309-215-10(2), R309-520-7(1)(c)(iii)
TG31	NO SAMPLE TAP FOR TESTING FINISHED WATER	MIN	15	R309-525-18, R309-525-25(4)
TG35	CROSS CONNECTION BETWEEN UNTREATED WATER AND FINISHED WATER	SIG	50	R309-520-7(1)(h), R309-525-11(9)(a) and (b)
TG53	NO BACKFLOW PROTECTION ON IN-PLANT WATER SUPPLY LINE	SIG	50	R309-525-11(9)(a)
TX07	NO BACKFLOW PROTECTION ON CHEMICAL MAKEUP WATER SUPPLY LINE	SIG	50	R309-525-11(2)(c), R309-525-11(9)(b)(i) to (iv)

Deficiency Code	Deficiency Description (Proposed)	Deficiency Type (Proposed)	Points (Proposed)	Rule Reference
TX08	SOLUTION TANK OVERFLOW PIPE NOT DOWNTURNED OR LACKING A CLEARANCE OF 6 INCHES OR MORE	SIG	50	R309-525-11(8)(b)(v), R309-525-11(9)(b)(iii)
TG64	IN-PLANT WATER SUPPLY LACKS CROSS CONNECTION CONTROL	SIG	50	R309-525-11(9)(a)(iii) and (b)
T027	IN-PLANT WATER SUPPLY TO LABORATORY AND SANITARY FACILITIES NOT OF FINISHED WATER QUALITY	SIG	25	R309-525-16, R309-525-17(3)
TD94	PRESEDIMENTATION BASINS NOT EQUIPPED FOR SLUDGE REMOVAL	MIN	15	R309-525-10(1)
T001	PLANT LACKS PROVISION FOR BYPASSING PRESEDIMENTATION BASINS	MIN	15	R309-525-10(3)
TC07	ACTIVATED CARBON APPLICATION POINT NOT APPROPRIATE (BEFORE OXIDANT ADDITION)	MIN	15	R309-525-11(2)(a) and (d)
TC10	ACTIVATED CARBON NOT STORED SEPARATELY OR AWAY FROM INCOMPATIBLE CHEMICALS	SIG	25	R309-525-11(7)(a)(iv), R309-105-10
TC17	ACTIVATED CARBON STORAGE AND OPERATION AREA NOT CLEAN, DRY OR SAFE FOR OPERATOR SAFETY	SIG	25	R309-525-11(6)(a)(i)(C), R309-525-11(6)(c), R309-525-19, R309-105-10, R309-525-15(d)
TX09	BACKUP OR STANDBY CHEMICAL FEEDER NOT AVAILABLE	MIN	15	R309-525-11(7)(b)(i) and (ii)
TG21	CHEMICAL FEEDER NOT ACCURATE, CALIBRATED OR FUNCTIONING	SIG	25	R309-525-11(7)(a)(i) and (x)
T080	CHEMICALS USED FOR DRINKING WATER TREATMENT NOT ANSI NSF 60 CERTIFIED	SIG	25	R309-525-11(5), R309-525-25(1), R309-535-11(5)(d)
TG05	SAFETY DATA SHEET INFO INCLUDING CHEMICAL NAME, PURITY, CONCENTRATION AND SUPPLIER, NOT AVAILABLE FOR ALL CHEMS	MIN	15	R309-525-11(5)(a), R309-525-11(6)(b)(i)
TD98	LACKS OPERATIONAL RECORDS FOR CHEMICAL DOSING	MIN	15	R309-105-14(3)
TG19	INCOMPATIBLE CHEMICALS ARE FED, STORED OR HANDLED TOGETHER	SIG	25	R309-525-11(7)(a)(iv)
TG09	NO MEANS TO MEASURE LIQUID LEVEL IN SOLUTION TANK	MIN	15	R309-525-11(6)(a)(iv)(A), R309-525-11(8)(b)(ii), R309-525-11(8)(c)(iv)
TG59	LACKS CONTAINMENT PROVISIONS TO HANDLE SOLUTION TANK SPILLS OR OVERFLOWS	MIN	15	R309-525-11(6)(a)(iv)(B), R309-525-11(8)(b)(viii)
TG10	SOLUTION TANK LACKS AN INVERTED J VENT OR A MEANS OF VENTING	MIN	5	R309-525-11(6)(a)(iv)(C)
TG13	ACID SOLUTION NOT KEPT IN CLOSED ACID-RESISTANT CONTAINERS	MIN	15	R309-525-11(6)(a)(v)
TG17	DUST CONTROL AND VENTILATION NOT ADEQUATE FOR HANDLING DRY CHEMICALS	MIN	15	R309-525-11(6)(c)
TG60	ACID TANK NOT VENTED TO OUTSIDE	MIN	15	R309-525-11(8)(b)(vi)
TG03	SOLUTION TANKS AND CHEMICAL REFILL LINES NOT LABELED	MIN	15	R309-525-11(8)(c)(vii)
TG18	SOLUTION TANK NOT PROTECTED AGAINST BACKFLOW OR NOT PROVIDED WITH A VALVED DRAIN	SIG	50	R309-525-11(8)(b)(vii)
TD64	CHEMICAL SOLUTION NOT COVERED OR TANK ACCESS OPENINGS NOT COVERED	MIN	5	R309-525-11(8)(b)(iii)
T081	FLASH MIX PROCESS FUNCTIONS IMPROPERLY OR CHEMICAL FOR FLASH MIXING ADDED IMPROPERLY	MIN	15	R309-525-12(1)
T082	FLOCCULATION PROCESS FUNCTIONS IMPROPERLY	MIN	15	R309-525-12(2)
T083	NO MEANS TO DETERMINE ANTICIPATED COAGULANT DOSE	MIN	15	R309-525-11(2)(a) and (d)
T043	FILTER OR MEDIA NOT CLEANED, INSPECTED, MAINTAINED OR PROPERLY FUNCTIONING	SIG	25	R309-105-10, R309-525-19, R309-525-15(4)(a), R309-525-15(4)(b)(ii to v), R309-525-15(4)(c)(ii to vi)
T021	INSTRUMENTATION AND CONTROLS IN TREATMENT PLANT NOT MAINTAINED, OPERABLE OR FUNCTIONING PROPERLY	SIG	25	R309-525-25(4)
T004	FILTRATION BASINS LACK SAFETY HANDRAILS	SIG	25	R309-525-15(6)(n)
T074	NO FILTER-TO-WASTE PROVISION FOR EACH FILTER	SIG	25	R309-525-15(6)(p)
TT01	TURBIDIMETER NOT CALIBRATED OR MAINTAINED FOR ACCURATE CONTINUOUS MONITORING OF TREATMENT PROCESSES	SIG	50	R309-525-25(4)

Deficiency Code	Deficiency Description (Proposed)	Deficiency Type (Proposed)	Points (Proposed)	Rule Reference
T002	PRIMARY COAGULANT NOT USED PROPERLY	SIG	50	R309-525-11(1)(a)
T084	REQUIRED DISINFECTANT NOT ADDED TO FINISHED WATER	SIG	50	R309-525-11(1)(b)
T005	MULTI-MEDIA FILTER NOT PROVIDED WITH CONTINUOUS TURBIDITY MONITORING	SIG	50	R309-525-15(4)(b)(vi), R309-525-15(4)(c)(vii)
T085	MULTI-MEDIA FILTER NOT EQUIPPED TO INITIATE AUTOMATIC SHUTDOWN OR BACKWASH	SIG	50	R309-525-15(4)(b)(vi), R309-525-15(4)(c)(vii)
T006	NO SAMPLE TAP OR A MEANS TO SAMPLE RAW WATER OR FINISHED WATER	SIG	25	R309-525-15(10)(a)(i)
T007	NO MEANS TO MONITOR MEDIA FILTER HEAD LOSS	SIG	25	R309-525-15(10)(a)(ii)
T008	NO MEANS TO MONITOR OR RECORD FLOW RATE OF EACH FILTER	MIN	15	R309-525-15(10)(a)(iii), R309-525-15(2)
T076	INADEQUATE WATER SUPPLY OR FLOW RATE TO MEET FILTER BACKWASH NEEDS	MIN	15	R309-525-15(7)(a)(iv)
T075	BACKWASH WATER SUPPLY NOT OF FINISHED DRINKING WATER QUALITY	SIG	50	R309-525-15(7)(a)(ix)
T009	SLOW SAND PROCESS DOES NOT HAVE AT LEAST 3 FILTER UNITS	MIN	15	R309-530-6(5)(a)
T086	SLOW SAND FILTERS ARE NOT PROTECTED TO PREVENT FREEZING	MIN	15	R309-530-6(5)(b)
T087	SLOW SAND FILTERS DO NOT HAVE AT LEAST 24 INCHES OF SAND THAT MEETS RULE REQUIREMENTS	MIN	15	R309-530-6(5)(e) and (f)
T089	SLOW SAND FILTERS DOES NOT HAVE FILTER-TO-WASTE PROVISION	SIG	25	R309-530-6(5)(k)
T088	SLOW SAND FILTERS ARE NOT MAINTAINED OR OPERATED PROPERLY	MIN	15	R309-530-6(4)
T090	SOURCE WATER QUALITY OR TURBIDITY UNSUITABLE FOR SLOW SAND TREATMENT	SIG	50	R309-530-6(2)(a)
T091	INADEQUATE DIRECT INTEGRITY TESTING TO MONITOR MEMBRANE INTEGRITY FOR EACH MEMBRANE UNIT	SIG	50	R309-215-15(18)(b)(iii)
T092	INADEQUATE CONTINUOUS INDIRECT INTEGRITY TESTING TO MONITOR MEMBRANE INTEGRITY FOR EACH UNIT	SIG	50	R309-215-15(18)(b)(iv)
T093	INCORRECT CONTROL LIMIT OF MEMBRANE DIRECT INTEGRITY TEST SENSITIVITY TO INDICATE LOG REMOVAL	SIG	50	R309-215-15(18)(b)(iii)c
T094	INCORRECT TRIGGER FOR MEMBRANE CONTINUOUS INDIRECT INTEGRITY TESTING	SIG	50	R309-215-15(18)(b)(iv)
T095	INSUFFICIENT BACKWASH WATER SUPPLY TO ALLOW BACKWASHING 2 MEMBRANE UNITS CONSECUTIVELY	MIN	15	R309-525-15(7)(a)(iv)
TD95	GAS CHLORINE ROOM IN TREATMENT PLANT LACKS OUTWARD-OPENING EXIT DOOR WITH PANIC BAR	SIG	25	R309-520-7(2)(g)(iii)
TD96	GAS CHLORINE ROOM IN TREATMENT PLANT HAS FLOOR DRAINS THAT CONNECT TO OTHER DRAINS IN THE PLANT	SIG	25	R309-520-7(2)(g)(iv)
TD56	GAS CHLORINE ROOM IN TREATMENT PLANT LACKS SHATTER RESISTANT INSPECTION WINDOW(S)	SIG	25	R309-520-7(2)(g)(i)
TD07	GAS CHLORINE AREA IN TREATMENT PLANT NOT SEPARATE FROM OTHER AREAS	SIG	25	R309-520-7(2)(g)(v)
T096	CLEAR WELL INADEQUATELY DESIGNED TO PROVIDE REQUIRED DISINFECTION CT	SIG	25	R309-525-16(b) and (b)(i)
T018	CLEAR WELL LACKS AN OVERFLOW AND VENT	SIG	25	R309-525-16(1)(b)(iii), R309-545
T019	LACKS SUFFICIENT LABORATORY EQUIPMENT FOR PROPER O&M OF THE PLANT	SIG	25	R309-525-17(1)
TG20	DAILY RECORDS DO NOT REFLECT DOSAGES ACCURATELY	SIG	25	R309-105-14(3)(a)
T033	MEDIA DEPTHS NOT MEETING REQUIREMENTS	SIG	25	R309-525-15(4)
TGR2	TRIGGER FOR BACKWASH RECYCLING REVIEW	MIN	15	R309-215-8 (4)
TGR3	TRIGGER FOR UNDOCUMENTED FACILITY OR PROCESS	MIN	15	R309-105-6
T097	LACKS MONITORING OR RECORDS OF RECYCLED WATER	MIN	15	R309-215-8(1)

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TGR9	TRIGGER FOR REGULATORY FOLLOWUP TO ADDRESS CONCERNS	MIN	15	R309-105-8, R309-100 through 605
T098	FAIL TO MEET GIARDIA, VIRUS OR CRYPTOSPORIDIUM TREATMENT REQUIREMENTS	SIG	100	R309-505-5(1)(d), R309-215
T099	INCORRECT SURFACE WATER TREATMENT COMPLIANCE WATER QUALITY SAMPLING LOCATION	SIG	25	R309-215
T028	INCORRECT COMPLIANCE CHLORINE RESIDUAL SAMPLING LOCATION	SIG	25	R309-216
T029	CHEMICAL DOSING NOT PROPORTIONAL TO FLOW CHANGES	MIN	15	R309-525-11(7)(d)(ii)
T032	OPERATING FILTER ABOVE APPROVED LOADING RATE	MIN	15	R309-105, R309-525-15(2), R309-525-15(4)(a), R309-525-15(4)(b)(v), R309-525-15(4)(c)(vi), R309-525-15(2), R309-530
TF04	FL CHEMICAL LACKS ANSI NSF 60 CERTIFICATION	SIG	25	R309-535-5(2)(a)(i)
TF06	FL CHEMICAL CONTAINER NOT COVERED OR UNOPENED	MIN	15	R390-535-5(2)(b)(i)
TF01	FL DOSING NOT CALCULATED OR RECORDED DAILY	MIN	15	R309-105-14(3)
TF02	FL MONITORING AND REPORTING NOT MEETING HEALTH DEPARTMENT REQUIREMENTS	MIN	15	R309-105-14(3), R309-535-5(1)
TF03	FL FACILITY LACKS SECONDARY CONTROL MECHANISM TO PREVENT OVERFEED	SIG	50	R309-535-5(2)(h)
TF28	FL IMPROPER STORAGE OF CHEMICALS	MIN	15	R309-535-5(2)(b)(ii), (iii) and (iv)
TF36	FL DRY CHEMICALS NOT STORED ON PALLETS	MIN	5	R309-535-5(2)(b)(iii)
TF41	FL INADEQUATE DISPOSAL OF BAGS, DRUMS OR BARRELS	MIN	15	R309-535-5(5)(c)(i)
TF18	FL IMPROPER OVERFLOW FROM BULK TANK OR DAY TANK	MIN	15	R309-525-11(6)(a)(i)(B) and (iv)(B), R309-535
TF20	FL LACKS OPERATIONAL RECORDS OF CHEM DOSE AND QUANTITY USED	MIN	15	R309-105-14(3)
TF26	FL ACID RESISTANT SPILL CONTAINMENT INADEQUATE OR NOT PROVIDED	SIG	25	R309-535-5(2)(c)(i), (ii) and (iii)
TF14	FL NO MEANS TO MEASURE CHEMICAL QUANTITY USED	SIG	25	R309-535-5(2)(d)(ii)
TF10	EMERGENCY EYEWASH NOT PROVIDED FOR FL SATURATOR OR DRY FEEDER	SIG	25	R309-535-5(4)(g), R309-535-5(5)(d)
TF11	FL NO MEANS TO MEASURE FLOW OF WATER TO BE TREATED	SIG	25	R309-535-5(2)(d)(i)
TF22	FL FEED PUMP STARTS WITHOUT WELL OR SERVICE PUMP RUNNING AND WATER FLOWING IN THE PIPE	SIG	100	R309-535-5(2)(f)
TF16	FLUORIDE INJECTION LINE DOES NOT ENTER IN THE LOWER 1/3 OF WATER PIPE	MIN	5	R309-535-5(2)(g)(i)
TF50	INJECTING FLUORIDE UPSTREAM OF LIME SODA SOFTENING, ION EXCHANGE OR OTHER SOFTENING PROCESS	MIN	15	R309-525-25(4)
TF23	FLUORIDATION EQUIPMENT NOT HOUSED IN SECURE BUILDING	SIG	25	R309-535-5(2)(h)(i)
TF24	FL ACID STORAGE OR INJECTION AREA LACKS VENTING TO OUTSIDE AND AWAY FROM AIR INTAKES	MIN	15	R309-535-5(2)(j)(iii)
TF25	NO SEPARATE SWITCHES FOR FANS AND LIGHTS IN FLUORIDE AREA	MIN	15	R309-535-5(2)(j)(iv)
TF27	MAKEUP WATER SUPPLY FOR FL FACILITY LACKS BACKFLOW PROTECTION	SIG	50	R309-535-5(2)(k), R309-535-5(4)(d)
TF42	FL NEUTRALIZING CHEMICAL IS NOT AVAILABLE FOR IMMEDIATE USE FOR ACID SPILLS	SIG	25	R309-535-5(3)(e)
TF29	FL VENTS DO NOT DISCHARGE OUTSIDE ABOVE GRADE	MIN	15	R309-535-5(3)(b)(ii)
TF21	FL TEST EQUIPMENT NOT VERIFIED OR CALIBRATED	MIN	15	R309-525-25(4)
TF31	FL ACID BULK AND DAY TANKS DO NOT HAVE SEPARATE VENTS WHEN BULK TANK OVERFLOW RISK EXISTS	MIN	15	R309-535-5(3)(b)(iii)
TF30	FL ACID FACILITY CONSTRUCTED AFTER JAN 1, 2017 LACKS A VIEW WINDOW BETWEEN OPERATING AREA AND CONTROL ROOM	MIN	15	R309-535-5(3)(c)

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TF15	FL ACID FACILITY LACKS SAFETY SHOWERS AND EYEWASH	SIG	25	R309-535-5(3)(d)
TF13	FL FACILITY INADEQUATE PERSONAL PROTECTIVE EQUIPMENT PROVIDED	SIG	25	R309-535-5(3)(f), R309-535-5(4)(h), R309-535-5(5)(e)
TF32	FL ACID FACILITY LACKS A MEANS TO STOP TRANSFER PUMP TRANSFERRING ACID FROM BULK TANK TO DAY TANK	REC	0	recommendation
TF33	FL ACID FACILITY LACKS AN EMERGENCY SHUTOFF FOR FL FEED PUMP OR TRANSFER PUMP	REC	0	recommendation
TF34	FL ACID FACILITY LACKS MEANS TO HANDLE CATASTROPHIC FAILURE OF ACID BULK TANK	REC	0	recommendation
TF35	FL ACID FACILITY LACKS SEISMIC RESTRAINT FOR ACID BULK TANK	REC	0	recommendation
TF43	FL SATURATOR LACKS A MEANS OF MEASURING QUANTITY OF CHEMICAL SOLUTION USED	SIG	25	R309-535-5(4)(a)
TF44	NO SAMPLE TAP AVAILABLE FOR TESTING FL LEVEL IN TREATED WATER	MIN	15	R309-535-5(2)(d)(iii)
TF12	INSUFFICIENT FL CRYSTAL AMOUNT IN FL SATURATOR TANK (BELOW MINIMUM LEVEL MARKED ON OUTSIDE OF SATURATOR TANK)	MIN	15	R309-535-5(4)(b)
TF37	FL DISSOLUTION WATER NOT TREATED TO HARDNESS LESS THAN 75 MG/L	MIN	15	R309-535-5(4)(e)(i)
TF39	FL DRY FEED FACILITY LACKS EXHAUST FAN AND DUST FILTER FOR TRANSFER OF DRY CHEMICALS	MIN	15	R309-535-5(5)(c)(ii)
TF47	FL DRY FEED SOLUTION TANK LACKS MECHANICAL MIXER	MIN	15	R309-535-5(5)(a) and (b)
TF40	FL DRY FEED FACILITY DISCHARGES EXHAUST AIR TO ATMOSPHERE WITHOUT THROUGH DUST FILTER	MIN	15	R309-535-5(5)(c)(iii)
TI05	POLYPHOSPHATE SEQUESTRATION USED FOR IRON MANGANESE CONTROL WHEN IRON OR MANGANESE OR COMBINATION EXCEEDS 1 MG/L	MIN	15	R309-535-11(5)
TQ06	TOTAL PHOSPHATE APPLIED EXCEEDS 10 MG/L AS PO4 FOR IRON MANGANESE CONTROL	MIN	15	R309-535-11(5)
TQ08	LACKS CHLORINE RESIDUAL IN DISTRIBUTION SYSTEM WHEN USING POLYPHOSPHATE SEQUESTRATION FOR IRON MANGANESE CONTROL	MIN	15	R309-535-11(5)
TQ04	APPLY POLYPHOSPHATE PRIOR TO IRON MANGANESE TREATMENT OR AFTER AERATION, OXIDATION OR DISINFECTION	MIN	15	R309-535-11(5)(c)
Pump Stations				
PS13	PUMP STATION BUILDING FLOOR ELEVATION NOT PROTECTED FROM FLOODING OR LESS THAN 6 INCHES ABOVE FINISH GRADE	MIN	15	R309-540-5(1)(a)(ii), R309-540-5(2)(a)(iii)
PS01	PUMP FACILITY NOT PROTECTED FROM FLOODING OR SURFACE RUNOFF	MIN	15	R309-540-5(1)(a)(ii) and (iv)
PS33	PUMP FACILITY NOT PROTECTED FROM VANDALISM OR UNAUTHORIZED ENTRY	MIN	15	R309-540-5(1)(a)(v)
PS18	IN-LINE BOOSTER PUMP STATION LACKS REDUNDANCY TO MEET PEAK DEMAND WITH ONE PUMP OUT OF SERVICE	SIG	25	R309-540-5(4)(b)
PS19	PUMP FACILITY LACKS CAPACITY TO MEET DEMAND	SIG	25	R309-540-3(a)
PS07	PUMP ELECTRICAL CONTROLS NOT PROTECTED AGAINST FLOODING	SIG	25	R309-540-5(6)(e)
PS05	PUMP FACILITY LACKS SHUTOFF VALVES FOR O&M AND REPAIR	MIN	15	R309-540-5(6)(a)
PS14	PUMP STATION BUILDING NOT PROPERLY HEATED, LIGHTED OR VENTILATED	MIN	5	R309-540-5(2)(e), (f) and (g)
PS06	PUMP STATION BUILDING INTERIOR FLOOR NOT DRAINED OR NOT SLOPED TO DRAIN	MIN	15	R309-540-5(2)(a)(v)
PS03	PUMP FACILITY LACKS PRESSURE GAUGE ON DISCHARGE LINE	MIN	15	R309-540-5(6)(c)(i)
PS34	COM SYSTEM RELIES ON DIAPHRAGM OR AIR PRESSURE TANKS FOR FINISHED WATER STORAGE OR FIRE PROTECTION	MIN	15	R309-540-6(1)
PT14	HYDROPNEUMATIC TANK NOT PROTECTED FROM FLOODING	MIN	15	R309-540-6(2)
PT08	HYDROPNEUMATIC TANK LACKS PRESSURE GAUGE	MIN	15	R309-540-6(3)

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PT13	PUMP STATION/HYDROPNEUMATIC TANK AND CONTROLS NOT PROTECTED AGAINST HAZARD	SIG	25	R309-540-5(1)(a)(i)
PS31	IMPROPER LUBRICATION OIL USED FOR DRINKING WATER PUMP FACILITY	SIG	25	R309-105-10(7)
PS15	PUMP FACILITY HAS CROSS CONNECTION OR SUBJECT TO CONTAMINATION	SIG	50	R309-105-12(1)
PS12	PUMP STATION OR HYDROPNEUMATIC TANK A/V VALVE RELIEF PIPING NOT DOWNTURNED	SIG	25	R309-550-6(6)(b), R309-540-6(2)
PS10	PUMP STATION OR HYDROPNEUMATIC TANK A/V VALVE RELIEF PIPING LACKS NO. 14 SCREEN			
PS11	A/V VALVE RELIEF PIPING OF PUMP STATION OR HYDROPNEUMATIC TANK NOT PROTECTED FROM CONTAMINATION OR NOT AT LEAST 6 INCHES ABOVE FLOOR			
Drinking Water Storage Tanks				
V025	STORAGE TANK WITHIN 50 FEET OF SEWERS OR CONTAMINATION SOURCES	SIG	25	R309-545-7(3)
V001	STORAGE TANK SURROUNDING AREA NOT GRADED TO PREVENT STANDING WATER WITHIN 50 FEET OF THE TANK	SIG	25	R309-545-7(4)
V026	NO MEANS TO ISOLATE STORAGE TANK FOR O&M	SIG	25	R309-545-7(5)
V021	STORAGE TANK ROOF OR SIDEWALLS SHOW SIGNS OF MILD OR MODERATE DETERIORATION	MIN	15	R309-545-6(1) and 545-9(1)
V022	STORAGE TANK ROOF OR SIDEWALLS SHOW SIGNS OF SEVERE DETERIORATION	SIG	50	R309-545-6(1) and 545-9(1)
V017	STORAGE TANK SUBJECT TO CONTAMINATION DUE TO UNSEALED OPENINGS ON TANK ROOF OR SIDEWALLS	SIG	100	R309-545-6(1) and 545-9(1)
V027	DRINKING WATER STORAGE TANK SEPARATED FROM WASTEWATER COMPARTMENT BY A SINGLE WALL	SIG	50	R309-545-9(3)
V003	WATER PONDING ON STORAGE TANK ROOF OR TANK ROOF NOT SLOPED TO DRAIN	MIN	15	R309-545-9(4)
V028	SYSTEM RUNS OUT OF WATER DUE TO STORAGE TANK LACKING LEVEL CONTROL MECHANISM	SIG	25	R309-545-17
V042	NO MEANS TO DRAIN A STORAGE TANK FOR O&M	SIG	25	R309-545-10(1)
V036	TANK DRAIN IS CONNECTED TO OR DISCHARGES TO SANITARY SEWER	SIG	50	R309-545-10(1)(c)
V016	END OF TANK DRAIN LINE LACKS A CLEARANCE OF AT LEAST 12 INCHES	SIG	25	R309-545-10(1)(d)
V037	STORAGE TANK INTERNAL CATWALKS NOT DESIGNED WITH A SOLID FLOOR AND RAISED EDGES	SIG	25	R309-545-10(2)
VL01	STORAGE TANK LACKS AN OVERFLOW	SIG	25	R309-545-13
V011	END OF STORAGE TANK OVERFLOW LACKS A CLEARANCE OF BETWEEN 12 AND 24 INCHES FROM GROUND SURFACE	SIG	25	R309-545-13
V038	STORAGE TANK OVERFLOW DISCHARGE ARE NOT DIRECTED AWAY FROM TANK TO PROTECT TANK FOUNDATION			R309-545-13
V012	END OF STORAGE TANK OVERFLOW PIPE LACKS NO. 4 SCREEN			R309-545-13(3)
V013	STORAGE TANK OVERFLOW PIPE IS CONNECTED TO OR DISCHARGES TO SANITARY SEWER	SIG	50	R309-545-13(5)
VL03	STORAGE TANK LACKS AN ACCESS OPENING LOCATED ABOVE THE LEVEL OF THE OVERFLOW FOR TANK O&M	MIN	15	R309-545-14 and 14(1)
V008	TANK ACCESS HEIGHT LESS THAN 4 INCHES ABOVE TANK ROOF OR LESS THAN 18 INCHES ABOVE EARTHEN COVER	MIN	15	R309-545-14(1)
V039	STORAGE TANK ACCESS NOT WATERTIGHT OR NOT SEALED TO PREVENT CONTAMINATION	SIG	50	R309-545-14(1) and (2)
VL02	STORAGE TANK LACKS AN AIR VENT	SIG	25	R309-545-15
VL05	STORAGE TANK VENT INADEQUATELY SIZED	SIG	25	R309-545-15

Deficiency Code	Deficiency Description (Proposed)	Deficiency Type (Proposed)	Points (Proposed)	Rule Reference
V010	STORAGE TANK LID NOT SHOEBOX STYLE	SIG	25	R309-545-14(2)
V009	STORAGE TANK LID LACKS A FUNCTIONING GASKET BETWEEN THE LID AND FRAME			R309-545-14(2)
V029	STORAGE TANK ACCESS OPENING LACKS A LOCK			R309-545-14(3)
V040	STORAGE TANK VENT NOT SIZED OR LOCATED TO PREVENT BLOCKAGE DURING WINTER	MIN	15	R309-545-15(3)
V006	END OF STORAGE TANK VENT LACKS A CLEARANCE OF AT LEAST 24 INCHES FROM EARTHEN COVER	MIN	15	R309-545-15(2)
V005	STORAGE FACILITY VENT NOT DOWNTURNED AT LEAST 2 INCHES BELOW ANY OPENING	SIG	25	R309-545-15(1)
V007	STORAGE TANK VENT LACKS NO. 14 SCREEN			R309-545-15(4)
V035	STORAGE TANK VENT LARGER THAN 6 INCHES IN DIAMETER LACKS PROTECTIVE SCREEN	MIN	5	R309-545-15(5)
V004	STORAGE TANK LADDERS IN EXCESS OF 20 FEET LACK SAFETY FEATURE SUCH AS SAFE CAGE, HARNESS OR PLATFORM	MIN	15	R309-545-18(2)
V041	ELEVATED STORAGE TANK LACKS RAILINGS OR HANDHOLDS	SIG	25	R309-545-18(3)
V014	STORAGE TANK INTERIOR COATINGS LACK ANSI NSF 61 CERTIFICATION	SIG	25	R309-545-21(2)
Transmission and Distribution Pipelines				
D019	UNDERSIZED WATER MAIN SERVING FIRE HYDRANTS	MIN	15	R309-550-5(4) & (5)
D009	WATER MAINS SUSCEPTIBLE TO NEARBY CONTAMINATION SOURCES	SIG	50	R309-550-5(11)
R003	ASBESTOS CEMENT PIPE IN USE, MONITORING REQUIRED, REPLACEMENT RECOMMENDED	REC	0	R30-550-6(2)(a)
D014	DIST PIPING AND FITTINGS INSTALLED AFTER JAN 2014 NOT LEAD FREE OR NOT ANSI NSF 372 OR 61G CERTIFIED	MIN	15	R30-550-6(2)(b)
D001	DIST PIPING, FITTINGS OR MATERIAL NOT ANSI NSF 61 CERTIFIED	SIG	25	R309-550-6(1) & R309-550-6(3)
D002	WATER LINES LACK REQUIRED MINIMUM SEPARATION FROM SEWER	SIG	25	R309-550-7
D004	AIR RELIEF VALVE PIPE LACKS NO. 14 SCREEN	SIG	25	R309-550-6(6)(b)
D006	AIR RELIEF VALVE PIPE NOT DOWNTURNED			R309-550-6(6)(b)
D007	AIR RELIEF VALVE OR CHAMBER SUBJECT TO FLOODING			R309-550-6(6)(b) and (7)(b)
D013	DIST BLOWOFFS, FIRE HYDRANT, AIR RELIEF VALVE PIPING OR CHAMBER CONNECTED TO STORM DRAIN OR SANITARY SEWER	SIG	50	R309-550-6(5)(a), R309-550-6(6)(c) and (7)(a)
D011	INADEQUATE PROTECTION FOR DIST LINE CROSSING UNDER A SURFACE WATER BODY	SIG	25	R309-550-8(8)(b)
D018	FAIL TO FOLLOW AWWA C651 FOR WATER LINE DISINFECTION	SIG	25	R309-550-8(10)
D003	DIST SYSTEM UNABLE TO PROVIDE 20 PSI MIN PRESSURE FOR WATER LINES CONSTRUCTED BEFORE JAN 1, 2007	SIG	50	R309-105-9, R309-550-5(1)
D010	DIST SYSTEM UNABLE TO PROVIDE 40 PSI DURING PEAK DAY AND 20 PSI DURING FIRE FLOW FOR WATER LINES INSTALLED AFTER JAN 2017			
D016	DIST WATER LINE CONNECTED TO OR SUBJECT TO CONTAMINATION	SIG	50	R309-550-9(1) and (2), R309-550-13(2)
M011	UNAPPROVED WATER HAULING AS WATER SOURCE FOR COM SYSTEM	SIG	200	R309-550-10(1)
M021	INDIVIDUAL HOME BOOSTER PUMPS CONNECTED TO WATER MAIN DIRECTLY	SIG	50	R309-540-5(4)(c), R309-550-11(3)
Source Protection				
SP02	PER FOR ACTIVE SOURCE NOT UPGRADED TO FULL DWSP	SIG	25	R309-600-13(6) & R309-605-9(3)
SP04	ACTIVE SOURCE LACKS APPROVED UPDATES TO DWSP PLAN	MIN	5	R309-600-7(2)(e) & R309-605-7(c)(v)
SP06	NEW WATER SOURCE LACKS APPROVED PER	SIG	50	R309-600-13 & R309-605-9
SP07	ACTIVE SOURCE LACKS AN APPROVED DWSP PLAN	SIG	25	R309-600-7(2) & R309-605-7(1)(c)
SP09	REDEVELOPED SOURCE LACKS A REVISED DWSP PLAN	MIN	15	R309-600-7(2)(f) & R309-605-7(1)(c)(vi)
SP03	DWSP PLAN NOT IMPLEMENTED ACCORDING TO MANAGEMENT STRATEGIES IN DWSP	SIG	25	R309-600-7(2)(d) & R309-605-7(1)(c)(iv)

Appendix B

Utah Division of Drinking Water R309-400 – IPS Program Violation Points Table

Violation Code (Current)	Violation Description (Current)	Rule-Analyte	Violation Type (Proposed)	Points (Proposed)	Rule Reference
01	MCL, SINGLE SAMPLE	0100 TURBIDITY	Acute	50	R309-205-8, 215-9
01	MCL, SINGLE SAMPLE	ALL OTHER ANALYTES	Acute	50	R309-205, 215
01	MCL, SINGLE SAMPLE	1038 NITRATE-NITRITE	Acute	100	R309-205-5(4)
01	MCL, SINGLE SAMPLE	1040 NITRATE	Acute	100	R309-205-5(4)
01	MCL, SINGLE SAMPLE	1041 NITRITE	Acute	100	R309-205-5(5)
01	MCL, SINGLE SAMPLE	3008 GIARDIA LAMBLIA	Acute	50	R309-215-7, R505-6(2)(a) and (b)
02	MCL, AVERAGE	ALL OTHER ANALYTES	Acute	50	R309-205/215
02	MCL, AVERAGE	1040 NITRATE or 1038 NITRATE-NITRITE or Nitrite 1041	Acute	100	R309-205-5
03	MONITORING, ROUTINE MAJOR	ALL OTHER ANALYTES	Monitoring	25	R309-205 and 215
03	MONITORING, ROUTINE MAJOR	1040 NITRATE or 1038 NITRATE-NITRITE or Nitrite 1041	Monitoring	50	R309-205-5
03	LT24 MAJOR	3014 ECOLI	Monitoring	25	R309-215-15
03	LT24 MINOR	3014 ECOLI	Monitoring	5	R309-215-15
10	OPERATIONS REPORT	0200 SWTR	Reporting	50	R309-215-8
11	MRDL (CHLORINE/CHLORAMINE)	0400 DBP STAGE 1	Chronic	50	R309-215-12
12	QUALIFIED OPERATOR FAILURE	0400 DBP STAGE 1	Acute	50	R309-215
13	MRDL, ACUTE (CHL. DIOXIDE)	1008 Chlorine Dioxide	Acute	50	R309-210
19	MONITOR GWR ASSESSMENT, MAJOR	3014 TCR	Monitoring	5	R309-215-16
1A	MCL, E. COLI, POS E COLI	3014 RTCR	Acute	50	R309-211-9
1A	MCL, E. COLI, POS E COLI	8000 RTCR	Acute	50	R309-211-9
27	MONITORING, ROUTINE (DBP), MAJOR	0999 CHLORINE, 1006, 1008	Reporting	15	R309-215-12
27	MONITORING, ROUTINE (DBP), MAJOR	DBP2	Monitoring	15	R309-215-12
28	SANITARY SURVEY COOPERATION FAILURE	SS	Acute	50	R309-100-6
29	FAILURE TO PRODUCE FILTER ASSESSMENT	0300 IESWTR/LT1	Monitoring	25	R309-215-9
2A	LEVEL 1 ASSESS, MULTIPLE TC POS	8000 RTCR	Chronic	50	R309-211-9
2A	LEVEL 1 ASSESS, TC POS RT NO RPT	8000 RTCR	Chronic	50	R309-211-9
2B	LEVEL 2 ASSESS, MULTIPLE LV1 triggered	8000 RTCR	Acute	100	R309-211
2B	LEVEL 2 ASSESS, CONFIRMED ECOLI	8000 RTCR	Acute	100	R309-211
2C	FAILURE TO TAKE CORRECTIVE ACTION FOR SANITARY DEFECTS	8000 RTCR	Acute	50	R209-215-16
2D	STARTUP PROCEDURES TT	8000 RTCR	Reporting	50	R309-211-9 and 11

Violation Code (Current)	Violation Description (Current)	Rule-Analyte	Violation Type (Proposed)	Points (Proposed)	Rule Reference
34	MONITOR GWR TRIGGERED/ADDITIONAL, MAJOR	0700 GROUNDWATER RULE	Monitoring	25	R309-215-16
35	FAILURE TO SUBMIT OEL REPORT FOR HAA5	2456 HAA5	Reporting	15	309-210-10 (7)
35	FAILURE TO SUBMIT OEL REPORT FOR TTHM	2950 TTHM	Reporting	15	309-210-10 (7)
36	MONITORING, RTN/RPT MAJOR (SWTR-FILTER)	0999 CHLORINE, 1006, 1008	Reporting	15	R309-215-8
37	FAILURE TO PROFILE/CONSULT	TT	Reporting	15	R309-215
3A	MONITORING, ROUTINE, MAJOR	3014 RTCR	Monitoring	25	R309-211-9
3A	MONITORING, ROUTINE, MINOR	3014 RTCR	Monitoring	15	R309-211-9
3C	MONITORING, COLIFORM TURBIDITY TRIGGER	3014 RTCR	Monitoring	15	R309-211
40	FAILURE TO PROPERLY RECYCLE (FBR)	0500 FILTER BACKWASH RULE	Acute	50	R309-215
41	MONTHLY COMB. FILTER EFFLUENT (SWTR	0100 TURBIDITY	Acute	100	R309-215-9
41	MONTHLY COMB. FILTER EFFLUENT (SWTR	0200 SWTR	Acute	100	R309-215-10
41	RES DISINFECT CONCENTRATION (SWTR)	0999 CHLORINE	Acute	100	R309-215-10
42	FAILURE TO FILTER (SWTR)	0200 SWTR	Chronic	100	R309-215-7
43	SINGLE COMB FLTR EFFLUENT (IESWTR/LT1)	0300 IESWTR	Acute	100	R309-215-9
44	MONTHLY COMB FLTR EFFLUENT (IESWTR/LT1)	0300 IESWTR	Acute	100	R309-215-9
45	FAILURE ADDRESS DEFICIENCY (GWR)	0700 GROUNDWATER RULE	Chronic	50	R209-215-16
45	FAILURE ADDRESS DEFICIENCY (IESWTR)	0300 IESWTR/LT1	Chronic	50	R209-215-16
45	FAILURE ADDRESS DEFICIENCY (EPA SURVEY)	0800 LT2ESWTR	Chronic	50	R209-215-16
46	INADEQUATE DBP PRECURSOR REMOVAL	2920 DBP Stage 1	Chronic	50	R309-215-12
4A	REPORTING, ASSESSMENT FORMS	8000 RTCR	Reporting	15	R309-211-11
4B	REPORT SAMPLE RESULT/FAIL MONITOR	8000 RTCR	Reporting	5	R309-211-9
4C	REPORT STARTUP PROCEDURES CERT FORM	8000 RTCR	Reporting	15	R309-211-11
4D	NOTIFICATION, E COLI POSITIVE	8000 RTCR	Reporting	25	R309-211-11
51	INITIAL TAP SAMPLING (LCR)	5000 LEAD & COPPER RULE	Monitoring	25	R309-210-6
52	FOLLOW-UP OR ROUTINE TAP M/R (LCR)	5000 LEAD & COPPER RULE	Monitoring	25	R309-210-6
53	WATER QUALITY PARAMETER M/R	5000 LEAD & COPPER RULE	Monitoring	25	R309-210-6
57	OCCT/SOWT RECOMMENDATION/STUDY (LCR)	5000 LEAD & COPPER RULE	Chronic	50	R309-210-6
5A	SAMPLE SITING PLAN ERRORS	8000 RTCR	Reporting	5	R309-211-9
64	LEAD SERVICE LINE REPLACEMENT (LCR)	5000 LEAD & COPPER RULE	Chronic	50	R309-210-6
65	PUBLIC EDUCATION (LCR)	5000 LEAD & COPPER RULE	Chronic	50	R309-210-6
66	LEAD CONSUMER NOTIFICATION	5000 LEAD & COPPER RULE	Reporting	15	R309-210-6
71	CCR REPORT	7000 CONSUMER CONFIDENCE RULE	Reporting	25	R309-225-4
72	CCR ADEQUACY/AVAILABILITY/CONTENT	7000 CONSUMER CONFIDENCE RULE	Reporting	25	R309-225-7
73	FAILURE TO NOTIFY OTHER PWS	0700 GROUNDWATER RULE	Reporting	15	R309-220-4
75	PUBLIC NOTICE RULE LINKED TO VIOLATION	ALL ANALYTES TIER 3	Reporting	5	R309-220
75	PUBLIC NOTICE RULE LINKED TO VIOLATION	ALL ANALYTES TIER 2	Reporting	50	R309-220
75	PUBLIC NOTICE RULE LINKED TO VIOLATION	ALL ANALYTES TIER 1	Reporting	100	R309-220
76	OTHER NON-NPDWR POTENTIAL HEALTH RISKS	7500 PUBLIC NOTICE	Reporting	50	R309-220
MR	STATE MONITORING AND REPORTING	ALL ANALYTES	Reporting	5	R309-215-6
PN	FAILURE TO NOTIFY PUBLIC ENFORCEMENT	9700 PUBLIC NOTICE FOR IPS	Reporting	5	R309-220