

Water System Rating Criteria

Rule R309-400 Summary

Summary

This rule sets forth the rating criteria and specifies the points associated with the infraction of the Division's rules. It is also known as the "Improvement Priority System Rule" or IPS.

Water System Ratings

Each Public Water System shall be assign a rating of either: "Approved", "Corrective Action" or "Not Approved" based on the system's compliance with the Rules. In order to qualify for an Approved rating, the public water system must maintain a point total less than the following:

Community water system - 150 points;
Non-Transient Non-Community water system - 120 points; and
Non-Community water system - 100 points.

In order for a public water system to receive a Not Approved rating the accumulation of points for the water system must equal or exceed the totals listed above.

In order to qualify for a Corrective Action rating the public water system must submit the following:

1. A written agreement to the Executive Secretary stating a willingness to comply with the requirements set forth in the Rules;
2. A compliance schedule with a time table agreed upon by the Executive Secretary outlining the necessary construction or changes to correct any physical deficiencies or monitoring failures; and
3. Proof of financial ability to correct the deficiencies.

The Corrective Action rating shall continue until the total project is completed. The Executive Secretary may at any time rate a water system not approved if an immediate threat to public health exists. This rating shall remain in place until such time as the threat is alleviated and the cause is corrected.

Any water system may appeal its assigned rating or assessed points to the Drinking Water Board by filing a request for a hearing with the Executive Secretary.

Quality, Monitoring and Public Notification Violations

| <u>Bacteriological</u> | <u>Points</u> |
|--------------------------|---------------|
| Major routine monitoring | 35 |
| Public Notice | 5 |
| Minor routine monitoring | 10 |
| Public Notice | 2 |
| Major repeat monitoring | 40 |
| Public Notice | 5 |

| <u>Bacteriological (cont.)</u> | <u>Points</u> |
|---|---------------|
| Minor repeat monitoring | 10 |
| Public Notice | 2 |
| Non-acute MCL | 40 |
| Public Notice | 10 |
| Acute MCL | 50 |
| Public Notice | 10 |
| <u>Chemical</u> | <u>Points</u> |
| IOC, Sulfate, Rads, Asbestos, VOC, Pesticides | |
| Major monitoring | 20 |
| Public Notice | 3 |
| Minor monitoring | 10 |
| Public Notice | 1 |
| MCL | 30 |
| Public Notice | 5 |
| Nitrate & Nitrite | |
| Monitoring | 35 |
| Public Notice | 5 |
| MCL | 50 |
| Public Notice | 10 |
| Total Trihalomethanes | |
| Monitoring | 10 |
| Public Notice | 1 |
| MCL | 30 |
| Public Notice | 5 |
| Lead & Copper | |
| Major monitoring | 20 |
| Public Notice | 3 |
| Minor monitoring | 10 |
| Public Notice | 1 |
| Corrosion Treatment | 35 |
| Public Notice | 10 |
| Public Education | 10 |
| Lead line replacement | 5 |
| Public Notice | 2 |
| Groundwater Turbidity | |
| Monitoring | 35 |
| Public Notice | 5 |
| MCL | 50 |
| Public Notice | 10 |

Surface Water Treatment

| | <u>Points</u> |
|--|---------------|
| Plant Operation | 20 to 150 |
| For: a) disinfectant level less than 0.2 milligrams per liter, b) turbidity exceeding 5 NTU, c) the percentage of turbidity measurements meeting the treatment plant limit is less than 95 percent and d) the percentage of occurrences where there is no detectable levels of disinfection is greater than 5 percent. | |
| Treatment | 20 to 50 |
| No treatment of groundwater under the direct influence of surface water within 18 months of notification. | |

Physical Facilities

| | <u>Points</u> |
|---|---------------|
| <u>Surface Water Diversion Structures and Impoundments</u> | |
| Failure to provide: | |
| Multiple level intake structures | 2 |
| facilities to waste less desirable water held in storage | 2 |
| minimize frazil ice formation | 2 |
| protection from damage by ice buildup | 2 |
| exclusion of large quantities of fish or debris | 2 |
| removal of shrubbery from reservoir high water level | 2 |
| management of nutrient loading | 10 |
| <u>Well Sources</u> | |
| Failure to provide: | |
| Sanitary well seal | 50 |
| food grade mineral oil for pump lubrication | 25 |
| well casing terminates 12" above floor and 18" above ground, and/or 5' above the highest flood elevation or fitted with pitless adaptor | 1 to 20 |
| well casing vent covered with a No. 14 mesh screen | 5 |
| well discharge piping equipped with: 1) a smooth nosed sampling tap, 2) check valve, 3) pressure gauge, 4) means of measuring flow and 5) shutoff valve | 1 to 5 |
| means to release trapped air from the discharge piping | 5 |
| well house drain-to-daylight | 5 |
| <u>Spring Sources</u> | |
| Failure to provide: | |
| diversion of surface water away from collection area | 1 to 20 |
| a minimum of 10' of impervious cover or a liner | 10 |
| deep rooted vegetation within the fenced area | 10 |
| removal of vegetation interfering with spring collection | 10 |

Spring Sources (cont.)

Points

| | |
|---|---------|
| collection and/or junction box with a lockable shoebox lid, gasket, and # 14 mesh screen on the vent line and locked | 1 to 25 |
| proper fence | 10 |
| diversion channel capable of diverting surface water | 5 |
| a permanent flow measuring device | 5 |
| an overflow/drain with a proper screen and adequate freefall | 5 to 10 |

Disinfection by gaseous chlorine

Failure to provide:

| | |
|--|----|
| a detectable chlorine residual | 10 |
| proper heating, lighting and ventilation | 2 |
| a chlorine test kit | 2 |
| a cylinder wrench on the yoke valve | 2 |
| a one ton cylinder leak detection and repair kit | 15 |
| a 150 pound cylinder leak detection and repair kit | 2 |
| chlorine cylinders restrained or isolated | 2 |
| feeder line properly vented to the outside | 2 |
| measurement of chlorine usage | 2 |
| a properly stored gas mask | 5 |
| a means of measuring the volume of water treated | 2 |

Disinfection by liquid hypochlorite

Failure to provide:

| | |
|--|----|
| a detectable chlorine residual | 10 |
| properly housed and secured hypochlorinator | 2 |
| a chlorine residual test kit | 2 |
| maintain a spare parts repair kit | 2 |
| a means of measuring the volume of water treated | 2 |

Storage

an uncovered finished reservoir shall be rated Not Approved.

Failure to provide:

| | |
|--|----------|
| reservoir access shoebox lid at least 4" above tank roof | 10 |
| proper vent | 5 |
| screened overflow, air gapped drainage | 5 to 15 |
| adequate drainage capacity | 2 |
| water tight roof and/or sidewalls | 10 to 50 |
| access ladder, or railing | 2 |
| internal coatings ANSI/NSF 61 approved | 30 |

Distribution

Failure to provide:

| | |
|--------------------------------------|----|
| provide at least 20 psi at all times | 50 |
| use approved pipe and materials | 30 |

| | | |
|--|----|---------------|
| <u>Distribution (cont.)</u> | | <u>Points</u> |
| adequate separation from sewer lines | | 30 |
| air vacuum release valve properly screened (up to a maximum of 20 points per system) | 2 | |
| proper drainage for air vacuum release valve chambers (up to a maximum of 50 points per system) | | 20 |
| <u>Quantity requirements</u> | | |
| Failure to provide: | | |
| sufficient source capacity | | 5 to 50 |
| sufficient storage capacity | | 5 to 50 |
| <u>Operator Certification</u> | | |
| | | <u>Points</u> |
| Failure to provide: | | |
| appropriately certified operator where required | | 30 |
| a certified operator at the appropriate level | 10 | |
| for grade 3 or 4 system that do not have all direct responsible charge operators certified at no more than one grade level below the level of the system | | 5 to 15 |
| Credit points given for: | | |
| a certified operator when none is required | | 10 |
| operators certified at a higher level than required | | 10 |
| operators certified in other appropriate areas | | 10 |
| <i>Note: a maximum of 20 credit points given for certifications</i> | | |
| <u>Cross Connection Control Program</u> | | |
| | | <u>Points</u> |
| Failure to provide: | | |
| local enforce authority | | 10 |
| public education | | 10 |
| trained staff | | 10 |
| written records of cross connection control activities | | 10 |
| on-going enforcement | | 10 |
| <u>Drinking Water Source Protection</u> | | |
| | | <u>Points</u> |
| Failure to provide: | | |
| source delineation | | 5 |
| an inventory of potential contamination sources | | 5 |
| control of potential contamination sources | | 5 |
| a plan to address new potential contamination sources | | 5 |

Drinking Water Source Protection (cont.)**Points**

Credit points given for:

a system that completes a source protection plan prior to the
deadline or on source where a plan is not required 20

Administrative Issues**Points****Administrative**

Failure to provide:

a responsible for party or individual 10
plan approval prior to construction 1 to 50

Emergency Response Program

Credit points given for:

an emergency response plan 10

Financial Management Plan

Credit points given for:

an adequate financial management plan 10

Sampling Site Plans

Failure to provide:

an adequate bacteriological sampling site plan 5
a lead/copper sampling site plan 10

Customer Complaint

documented customer complaints including: a) turbidity,

b) pressure, c) taste & odor, d) water suspected sickness, e)

waterborne disease outbreak, and f) periods of water outages 1 to 100

Systems with a waterborne disease outbreak shall be rated Not Approved**Agency Directives**

When directives including: a) administrative orders, b) rule

defined action, c) compliance schedules, d) variance/exemption

requirements, and e) bilateral compliance agreement. 1 to 100

Data Falsification

for each occurrence 1 to 50

Reporting and Record Maintenance Issues

Failure to provide:

monthly water treatment plant reports 10

monthly chlorination reports 10

