



# Significant Deficiency and Unmet Rule Requirements

Proposed Changes to Oregon Administrative Rules, Survey Forms and Letters

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OHA-DWS

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## Background

EPA required States to issue violations and enforce uncorrected significant deficiencies.

- Currently over 1500 unresolved deficiencies.
- DWS has not been issuing violations for uncorrected deficiencies
- DWS compelled to review and align significant deficiency

### Unresolved Deficiencies

Regulating Agency: All regulating agencies

County: All counties

Search Options: Overdue deficiencies only. Oregon very small systems excluded.

Results: 1518 unresolved deficiencies found for 474 systems

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## What? Why? How?



### What to Determine?

DWS Focus – Pathway to contamination and Treatment Performance  
EPA Requirements - Elements  
Workload Capacity for Formal Enforcement



### Why propose rule changes?

Fewer unresolved significant deficiencies = Less violations going through formal enforcement  
Time to write, propose, approve rules with partner/public feedback.



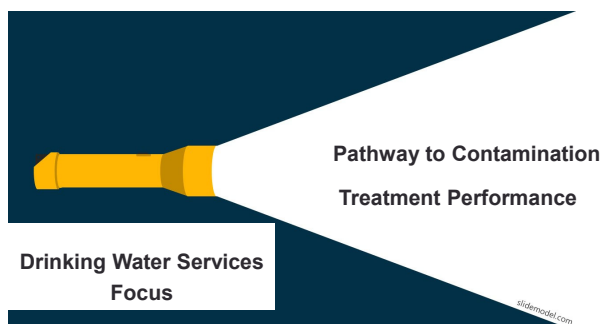
### How to review?

A work group was formed to review Rules – OAR 333-061  
Forms – Survey Forms and Letters  
Processes – Issuing Violations / Enforcement

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## Significant Deficiency



- "Significant Deficiency" means a defect in design, operation, or maintenance, or a malfunction of the source(s), treatment, storage, or distribution system that has been determined to cause or have the potential for causing the introduction of contamination into the water delivered to consumers.

OHA-DWS Determining Factors and Focus  
Direct pathway to contamination or treatment performance.

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## Significant Deficiency and Unmet Rule Requirements

Significant Deficiency	Example
Direct pathway to contamination	Screens
Treatment performance	Turbidity standards / CT

Unmet Rule Requirement	Example
Risk	An unmet rule with risk but not direct pathway
Construction Standard	Raw Water Sample Tap - 0050
Treatment Requirements	Non-NSF Chemicals
Documentation	Operations and Maintenance Manual

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## 8 Elements of EPA Sanitary Survey Framework

Source	Pumps
Treatment	Monitoring and Reporting
Distribution System	Operator Compliance
Finished Water Storage	Management and Operation

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## Construction Standards and Exemptions

- ORS 448.131(5) Nothing in this section authorizes the authority to require alterations of existing facilities unless alterations are necessary to insure safe drinking water. [1981 c.749 §6; 2009 c.595 §840]
- OAR 333-061-0050 (b) Facilities at public water systems must comply with the construction standards in place at the time the facility was constructed or installed for use at a public water system. A public water system shall not be required to undertake alterations to existing facilities, unless the standard is listed as a significant deficiency as prescribed in OAR 333-061-0076(4) or if MCLs are being exceeded.



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<p><input type="checkbox"/> <b>Source Deficiencies and Unmet Rule Requirements:</b></p> <p><b>Well Construction:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Sanitary seal and casing not watertight</li> <li><input type="checkbox"/> Does not meet setbacks from hazards</li> <li><input type="checkbox"/> Wellhead not protected from flooding</li> <li><input type="checkbox"/> No raw water sample tap</li> <li><input type="checkbox"/> No treated sample tap (if applicable)</li> <li><input type="checkbox"/> No screen on existing well vent</li> </ul> <p><b>Spring/Other GW Source:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Spring box construction does not exclude surface water</li> <li><input type="checkbox"/> Spring box not impervious durable material</li> <li><input type="checkbox"/> Spring box hatch/entry not watertight</li> <li><input type="checkbox"/> No screened overflow</li> <li><input type="checkbox"/> Does not meet setbacks from hazards</li> <li><input type="checkbox"/> No raw water sample tap</li> <li><input type="checkbox"/> No treated sample tap (if applicable)</li> </ul> <p><input type="checkbox"/> <b>Treatment Deficiencies and Unmet Rule Requirements:</b></p> <p><b>Surface Water Treatment:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Turbidity standards not met</li> <li><input type="checkbox"/> Turbidimeters not calibrated per manufacturer or at least quarterly</li> <li><input type="checkbox"/> Incorrect location for turbidity monitoring</li> <li><input type="checkbox"/> If serving &gt; 3,300 people no alarm or auto plant shut off for low chlorine residual</li> <li><input type="checkbox"/> Conventional or direct filtration: No alarm or plant shut off for high turbidity</li> <li><input type="checkbox"/> Conventional filtration: Settled water not measured daily</li> <li><input type="checkbox"/> Conventional or direct filtration: Turbidity profile not conducted on individual filters at least quarterly</li> <li><input type="checkbox"/> Cartridge filtration: Filters not changed according to mfg. rec. pressure differential</li> <li><input type="checkbox"/> Cartridge filtration: No pressure gauges before and after cartridge filter</li> <li><input type="checkbox"/> Membrane filtration: Direct integrity testing does not meet requirements</li> <li><input type="checkbox"/> Membrane filtration: Operations and maintenance manual does not include diagnostic/repair plan</li> <li><input type="checkbox"/> Membrane filtration: Turbidimeter not present on each unit</li> </ul> <p><b>Disinfection Deficiencies:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Free chlorine residual not maintained</li> <li><input type="checkbox"/> Unable to demonstrate minimum CTs are met</li> <li><input type="checkbox"/> DPD/EPA approved method not used</li> <li><input type="checkbox"/> Chlorine not measured &amp; recorded</li> <li><input type="checkbox"/> No means to adequately determine flow rate on contact chamber effluent line</li> <li><input type="checkbox"/> Failure to calculate CT values correctly</li> </ul>	<p><input type="checkbox"/> pH, temperature, and chlorine residual not measured daily at first user</p> <p><input type="checkbox"/> No means to adequately determine disinfection contact time under peak flow and minimum storage conditions</p> <p><b>UV Disinfection:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Lamp sleeve not cleaned</li> <li><input type="checkbox"/> Lamp not replaced per manufacturer</li> <li><input type="checkbox"/> No intensity sensor with alarm or shut-off</li> </ul> <p><b>Other Treatment:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Non-NSF approved chemicals</li> <li><input type="checkbox"/> Corrosion control parameters not met</li> </ul> <p><input type="checkbox"/> <b>Distribution System Unmet Rule Requirements:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> System pressure &lt; 20 psi</li> </ul> <p><b>Cross Connection:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> No ordinance or enabling authority (CWS)</li> <li><input type="checkbox"/> Annual Summary Report not issued (CWS)</li> <li><input type="checkbox"/> Testing records not current (CWS, NTNC, TNC)</li> <li><input type="checkbox"/> No Cross Connection Control Specialist (CWS ≥ 300 connections)</li> </ul> <p><input type="checkbox"/> <b>Finished Water Storage Deficiencies:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Roof and access hatch not watertight or adequately sealed</li> <li><input type="checkbox"/> No flap valve, screen, or equivalent on drain</li> <li><input type="checkbox"/> No screened vent</li> </ul> <p><input type="checkbox"/> <b>Monitoring Deficiencies and Unmet Rule Requirements:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Monitoring not current</li> <li><input type="checkbox"/> Unaddressed MCL violations or LCR AL exceedances</li> <li><input type="checkbox"/> No Coliform Sampling Plan</li> </ul> <p><input type="checkbox"/> <b>Management &amp; Operations Unmet Rule Requirements:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> No operations and maintenance manual</li> <li><input type="checkbox"/> Emergency response plan not completed (CWS, NTNC)</li> <li><input type="checkbox"/> Major modifications not approved (plan review)</li> <li><input type="checkbox"/> Master plan not current (≥ 300 connections)</li> <li><input type="checkbox"/> Annual CCR not distributed (CWS)</li> <li><input type="checkbox"/> PNC or out of compliance with AO</li> <li><input type="checkbox"/> Public notice not issued as required</li> </ul> <p><b>Operator Certification:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> No certified operator at required level</li> <li><input type="checkbox"/> No protocol for under certified operator</li> <li><input type="checkbox"/> Other: <ul style="list-style-type: none"> <li><input type="checkbox"/> Other situations presenting a public health risk, as determined by the Authority</li> </ul> </li> </ul>
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## Current Deficiency List / Proposed Deficiency List

Added to 0076

Removed from 0076



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## Proposed Significant Deficiency List

Category	Significant Deficiency	Category	Significant Deficiency
Source	Sanitary seal and casing not watertight	Treatment	Free chlorine residual not maintained - if disinfecting
Source	No screen on existing well vent	Treatment	Bypass around required treatment
Source - Spring	Springbox not impervious durable material	Treatment (UV)	No intensity sensor with alarm or shut-off
Source - Spring	Surface water not excluded	Pumps	No cut-off switch if upstream pressure drops below 20 psi (in distribution)
Source - Spring	No watertight access hatch/entry	Distribution	20 PSI not maintained at all time
Source - Spring	No screened overflow	Operator Certification	No DRC at required level
Storage	No screened vent	Monitoring	MCL violations not addressed
Storage	No flap valve, screen, or equivalent on overflow	Management	Overdue on compliance schedule
Storage	Hatch not locked	Other	Other situations presenting an immediate public health risk, as determined by the Authority
Storage	Roof and hatch not watertight;		

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## Proposed New Rules

Propose new rules in 2025 to go into effect Jan 2026

### Oregon Administrative Rule

### Proposed Change

<b>333-061-0032 – Treatment Techniques and Performance Standards</b> (6)(e) (C)	Update language on "eliminate source of fecal contamination".
<b>333-061-0036 - Sampling And Analytical Requirements</b> (E) 5(b)(A)(v) 5(b)(G)	Adding Alarm/shut off for low chlorine for PWS population greater than 3,300 Conventional or Direct Filtration – High Turbidity call out Cartridge – Pressure Differential/pressure gauges
<b>333-061-0076 Sanitary Surveys</b> (a)-(k)	Change violation to Unmet Rule Requirements Add rule to Significant Deficiencies Remove noted Significant Deficiencies

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## Summary

- DWS is required by EPA to issue violations for uncorrected significant deficiencies, starting in 2026.
- A work group was created to address uncorrected significant deficiencies and enforcement.
- DWS will propose rules in 2025 to go into effect 2026.
- DWS will update Survey forms and Letters to be available for use for 2026.



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## Questions?

### Comment on Proposed Rules?

Contact:

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or

Your DWS Regulator



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