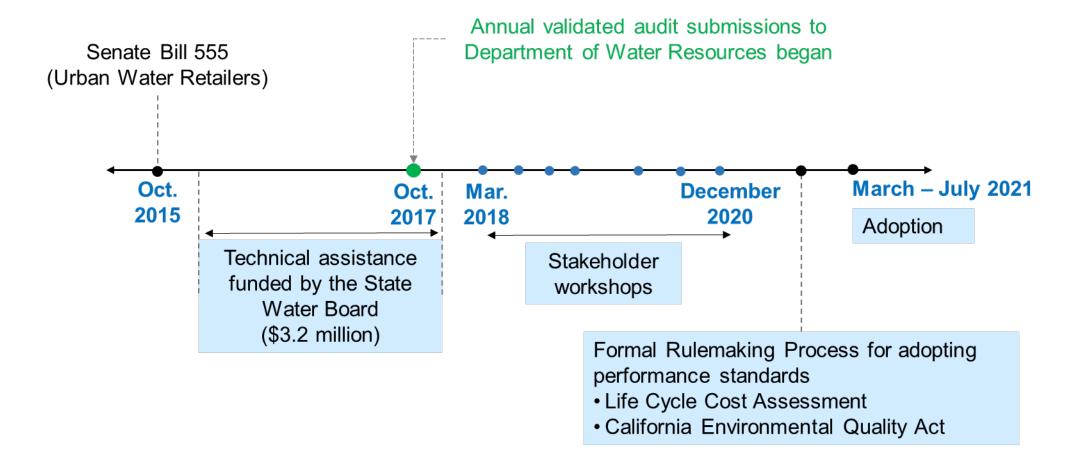
# Revised Regulatory Proposal and Process: Water Loss Performance Standards

### Kartiki Naik State Water Resources Control Board



### December 16, 2020

# **Regulatory Context and Timeline**



State Water Board program page: https://www.waterboards.ca.gov/water\_issues/programs/conservation\_portal/water\_loss\_control.html DWR's program page: https://water.ca.gov/Programs/Water-Use-And-Efficiency/Urban-Water-Use-Efficiency/Validated-Water-Loss-Reporting

## **Released Reference Documents**

Rulemaking	<ul> <li>Proposed regulatory text</li> <li>Initial Statement of Reasons with Economic Impact Analysis</li> </ul>
Economic model	<ul> <li>Revised draft economic model</li> <li>Draft guidance for model and adjustments</li> <li>Summary of changes from previous version</li> </ul>
Regulatory proposal	<ul> <li>Fact Sheet on proposed regulation</li> <li>Proposed water loss standards</li> <li>Questionnaires: Data quality, Asset management, Pressure management</li> <li>Alternative compliance pathway (Offramp) - Criteria</li> </ul>

# **Revised Regulatory Proposal - Overview**

□ Compliance with supplier-specific standards by 2028 water loss audit

- 5 gallons per connection per day buffer above standard
- Can comply using 2026 or 2027 water loss audits
- □ Questionnaires 2023, 2024 and update in 2027
  - Data qualityAsset ManagementPressure Management
- Adjustments to input values to economic model by July 2023
- Variances for extenuating circumstances and disadvantaged communities
- Alternative compliance pathway (Off-ramp) Suppliers with low loss and high data quality – by January 2023
  - Maintain real loss at threshold
  - Questionnaires not required

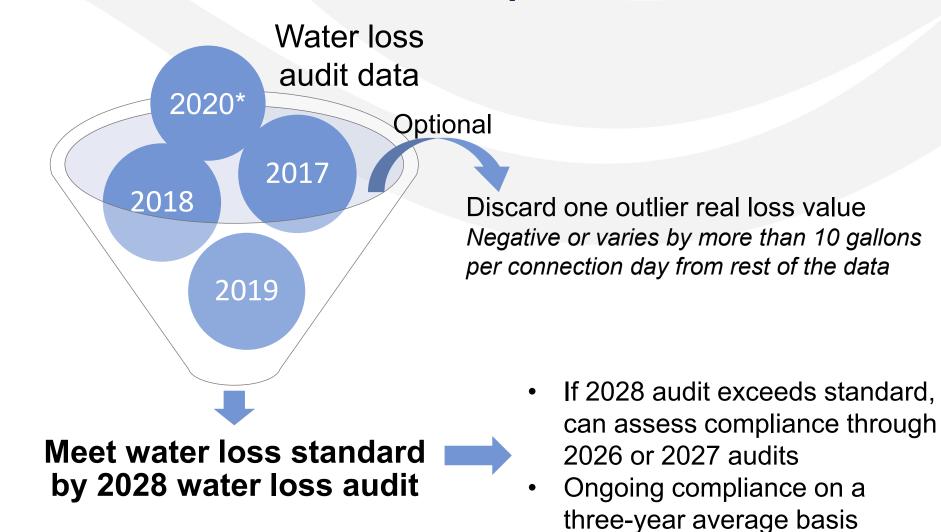
# **Performance Standards**

- Performance standards calculated using default input data
- Only suppliers with positive net benefit required to reduce real loss
- Scope for customizing for each supplier Supplier-specific data is key
- Suppliers may opt to enter data in model and send to State Water Board during formal rulemaking
- Adoption- Each supplier gets a standard
  - Default or supplier-specific inputs
- New and revised data collected in 2021 and 2022
  - Justification for Adjustments to State Water Board Guidance

# **Economic Model and Data Quality**

- Economic model revised
- Peer review of economic model in progress
- Due dates extended:
  - Adjustments to input values for economic model due by July 1, 2023 (optional)

# **Baseline and Compliance**



# Questionnaires

- Responses to questionnaires on
  - Data quality January 1, 2023
  - Pressure Management July 1, 2024, Update in 2027
  - Asset Management July 1, 2024, Update in 2027
- Draft questionnaires modified for consistency and data quality
- Apparent loss
  - Resolution
  - Tracking
  - Red flags

# Variances

**Disadvantaged communities** 

- Compliance assessed in 2031 for suppliers with:
  - Service areas designated as disadvantaged
    - Designation based on 80% of Median Household Income
  - Over 25% required real loss reduction
  - Benefit-cost ratio over 2022 through 2028 of less than 2

### Extenuating circumstances

- Variance process based on extenuating circumstances
  - Example: Fire, Financial crises

### Alternative Compliance Pathway (Off-ramp)

- Suppliers with low real loss and high data quality
- Suppliers maintain real loss at or below threshold
  - Responses to questionnaires not mandatory
- 16 gallons per connection per day or 1184 gallons per mile per day
  - Previously 10 gallons per connection per day
  - Threshold changed to 20<sup>th</sup> percentile of real loss
- Due date extended to align with water loss audit submission
  - Suppliers must meet criteria by January 1, 2023 to qualify

### Alternative Compliance Pathway (Off-ramp)

- Baseline real loss (2017 through 2020) and underlying data quality criteria to qualify
- Suppliers may also qualify by meeting criteria and using 2021 and 2022 water loss data
  - Adjustment would create new three-year baseline of 2020 through 2022
- Allowed variation in real loss corrected to 740 gallons per mile per day from 200 gallons per mile per day
  - Based on the median of the reported data: 74 connections per mile

# Added flexibility in proposed regulation

#### Compliance

- Can assess compliance in 2028 based on 2026 or 2027 audit
- 5 gallons per connection per day cap above standard

#### Baseline water loss

- One outlier year in baseline water loss
  - 2017 through 2020 audits

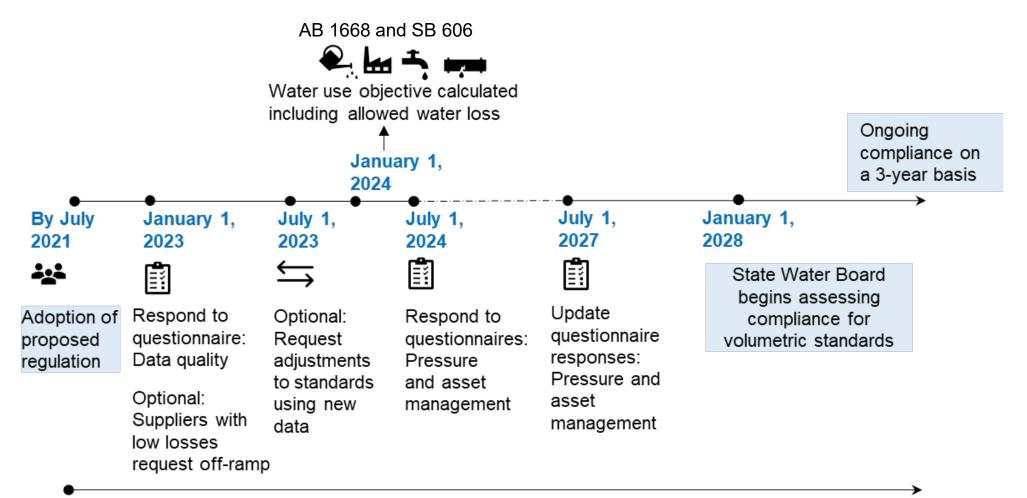
#### Adjustments

- Opportunity for new data from implementation
- Additional year to adjust standard
- Due by July 2023

# Alternative compliance pathway

- Maintain current water loss
- No responses to questionnaires required
- Proposed loss threshold: 16 gallons per connection per day or 1184 gallons per mile

# **Implementation Timeline**



Ongoing variance process for adverse circumstances

# **Timeline and next steps**

- Peer review publicly available: mid-January
- Initiation of formal rulemaking with 45-day comment period
  - Suppliers may send to State Water Board with supporting justification
    - System-specific values entered in the economic model
    - Accurate baseline excluding an outlier
- Subsequent revisions if needed: 15-day comment periods
- Adoption between May through August 2021
  - Each supplier gets a standard Default or supplier-specific inputs
- Adjustments based on new and revised data from 2021 and 2022 with justification - Guidance