

64669.80 Operations Plan

(a)

A DiPRRA shall develop an operations plan for each DPR project and submit the operations plan to the State Board with the permit application prepared pursuant to section 64669.15.

(b)

The DiPRRA shall operate the DPR project in accordance with an approved operations plan that complies with this section and a permit issued pursuant to section 64669.15.

(c)

The operations plan shall include:(1) A description of how each treatment process is operated within the entire treatment train used to comply with the requirements in this Article and how the reliability features of the DPR project are implemented in the operation of the entire treatment train, including the standard operating procedures to be used. (2) A description of the treatment process performance monitoring pursuant to sections 64669.45, 64669.50, 64669.85, and 64669.110, including: (A) Identification of each surrogate and operational parameter for each pathogen control point and chemical control point and a description of the equipment sampling and recording frequency for continuously monitored parameters; (B) Identification of the monitoring location for each surrogate and operational parameter; and (C) Identification of critical limit(s)

associated with each surrogate and operational parameter; (3) Information demonstrating that the personnel operating and overseeing the DPR project operations have received training in the following: (A) The proper operation of the treatment processes utilized; (B) The California Safe Drinking Water Act and its implementing regulations, including the requirements of this Article; (C) The potential adverse health effects associated with the consumption of drinking water that does not meet California drinking water standards; and (D) Implementation of a wastewater source control program pursuant to section 64669.40. (4) A description of the type and level of operator certification for each water treatment plant that provides treatment pursuant to this Article, a continuing education program that includes the elements of the training required pursuant to subsection (c)(3), provisions for training of new personnel, and a description of the staffing level at each water treatment plant. (5) A description of the approach a DiPRRA will take to optimize the treatment processes to maximize reduction of the following: (A) microbial contaminants identified in section 64669.45; (B) regulated chemicals identified in section 64669.60; (C) chemicals for which monitoring is required pursuant to section 64669.65; and (D) disinfection byproduct precursors and treatment byproducts identified in section 64669.50(q). (6) A description of provisions to conduct re-validation or additional on-site re-evaluation whenever circumstances identified in section 64669.45(a)(4)(C)(10), section 64669.45(e)(2), section 64669.50(e)(3), and section 64669.50(k)(1) are met. (7) A description of the SCADA system and how the SCADA system uses the data that it gathers to determine compliance with this Article. The plan shall describe how the SCADA system: (A) acquires and uses monitoring data to inform operators, generate reports, and take autonomous action; (B) identifies and responds to a failure of a control point to meet a critical

limit and halt the flow of water if necessary; (C) communicates and interoperates with the SCADA systems of all water treatment plants included in the DPR project that provide treatment pursuant to this Article; (D) identifies the LRV performance status of each process for which an LRV has been credited and uses that status to determine compliance with the required pathogen log reductions pursuant to section 64669.45; and (E) addresses the control system requirements pursuant to section 64669.85(d). (8) A protocol to test the SCADA system to ensure the ability of the system to perform the functions identified pursuant to sections 64669.45 and section 64669.85(d) and identified in the engineering report prepared pursuant to section 64669.75, with a schedule for testing of the SCADA system. (9) A description of the process for investigating failures, taking corrective action, and remedying the cause of a failure. (10) A description of the protocols for diversions or shutoff and for returning to normal operation after a diversion or shutoff. (11) A description of the treatment process equipment inspection and maintenance program, including control point monitoring equipment inspection, maintenance, and calibration. (12) A description of the records maintained to document the operations of the DPR project pursuant to section 64662. (13) A proposed reporting template to be used in compliance reporting pursuant to section 64669.95.

(1)

A description of how each treatment process is operated within the entire treatment train used to comply with the requirements in this Article and how the reliability features of the DPR project are implemented in the operation of the entire treatment train, including the standard operating procedures to be used.

(2)

A description of the treatment process performance monitoring pursuant to sections

64669.45, 64669.50, 64669.85, and 64669.110, including: (A) Identification of each surrogate and operational parameter for each pathogen control point and chemical control point and a description of the equipment sampling and recording frequency for continuously monitored parameters; (B) Identification of the monitoring location for each surrogate and operational parameter; and (C) Identification of critical limit(s) associated with each surrogate and operational parameter;

(A)

Identification of each surrogate and operational parameter for each pathogen control point and chemical control point and a description of the equipment sampling and recording frequency for continuously monitored parameters;

(B)

Identification of the monitoring location for each surrogate and operational parameter; and

(C)

Identification of critical limit(s) associated with each surrogate and operational parameter;

(3)

Information demonstrating that the personnel operating and overseeing the DPR project operations have received training in the following: (A) The proper operation of the treatment processes utilized; (B) The California Safe Drinking Water Act and its implementing regulations, including the requirements of this Article; (C) The potential adverse health effects associated with the consumption of drinking water that does not meet California drinking water standards; and (D) Implementation of a wastewater source control program pursuant to section 64669.40.

(A)

The proper operation of the treatment processes utilized;

(B)

The California Safe Drinking Water Act and its implementing regulations, including the

requirements of this Article;

(C)

The potential adverse health effects associated with the consumption of drinking water that does not meet California drinking water standards; and

(D)

Implementation of a wastewater source control program pursuant to section 64669.40.

(4)

A description of the type and level of operator certification for each water treatment plant that provides treatment pursuant to this Article, a continuing education program that includes the elements of the training required pursuant to subsection (c)(3), provisions for training of new personnel, and a description of the staffing level at each water treatment plant.

(5)

A description of the approach a DiPRRA will take to optimize the treatment processes to maximize reduction of the following: (A) microbial contaminants identified in section 64669.45; (B) regulated chemicals identified in section 64669.60; (C) chemicals for which monitoring is required pursuant to section 64669.65; and (D) disinfection byproduct precursors and treatment byproducts identified in section 64669.50(q).

(A)

microbial contaminants identified in section 64669.45;

(B)

regulated chemicals identified in section 64669.60;

(C)

chemicals for which monitoring is required pursuant to section 64669.65; and

(D)

disinfection byproduct precursors and treatment byproducts identified in section

64669.50(q).

(6)

A description of provisions to conduct re-validation or additional on-site re-evaluation whenever circumstances identified in section 64669.45(a)(4)(C)(10), section 64669.45(e)(2), section 64669.50(e)(3), and section 64669.50(k)(1) are met.

(7)

A description of the SCADA system and how the SCADA system uses the data that it gathers to determine compliance with this Article. The plan shall describe how the SCADA system: (A) acquires and uses monitoring data to inform operators, generate reports, and take autonomous action; (B) identifies and responds to a failure of a control point to meet a critical limit and halt the flow of water if necessary; (C) communicates and interoperates with the SCADA systems of all water treatment plants included in the DPR project that provide treatment pursuant to this Article; (D) identifies the LRV performance status of each process for which an LRV has been credited and uses that status to determine compliance with the required pathogen log reductions pursuant to section 64669.45; and (E) addresses the control system requirements pursuant to section 64669.85(d).

(A)

acquires and uses monitoring data to inform operators, generate reports, and take autonomous action;

(B)

identifies and responds to a failure of a control point to meet a critical limit and halt the flow of water if necessary;

(C)

communicates and interoperates with the SCADA systems of all water treatment plants included in the DPR project that provide treatment pursuant to this Article;

(D)

identifies the LRV performance status of each process for which an LRV has been credited and uses that status to determine compliance with the required pathogen log reductions pursuant to section 64669.45; and

(E)

addresses the control system requirements pursuant to section 64669.85(d).

(8)

A protocol to test the SCADA system to ensure the ability of the system to perform the functions identified pursuant to sections 64669.45 and section 64669.85(d) and identified in the engineering report prepared pursuant to section 64669.75, with a schedule for testing of the SCADA system.

(9)

A description of the process for investigating failures, taking corrective action, and remedying the cause of a failure.

(10)

A description of the protocols for diversions or shutoff and for returning to normal operation after a diversion or shutoff.

(11)

A description of the treatment process equipment inspection and maintenance program, including control point monitoring equipment inspection, maintenance, and calibration.

(12)

A description of the records maintained to document the operations of the DPR project pursuant to section 64662.

(13)

A proposed reporting template to be used in compliance reporting pursuant to section

64669.95.