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Direct Potable Water Reuse Standard Operating Procedure

Wichita Falls, Texas

Lagoon Return Pump Operation Procedure

This SOP supersedes any previous SOP on this topic.

INTRODUCTION

The reverse osmosis permeate water is pumped to the wash water return lagoon and must be pumped to the raw water splitter box with the lagoon return pumps. The percent of lagoon return flow MUST be less than 50 percent of the total flow to the 2010 SWTP.

OBJECTIVE

This procedure provides a description of pump operation and blending the lagoon return water.

PROCEDURE

- The Lagoon Return Pumps are operated on the SCADA work station.
 - To get to the Lagoon Pump overview, select the 1961/1987 plant overview.
 - Select the Lagoon Return box on the left of the screen.
- Select the pumps on the Lagoon Return screen.
 - Start one of the four lagoon return pumps. (More than one pump may be needed if the required flow is over 4 MGD.)
 - To set the flow rate, select the set point in the Washwater Return Pump Station Discharge Valve box.
 - Increase or decrease the set point until the lagoon flow is less than 50 percent of the total flow.
 - The percent lagoon flow will be shown just to the left in the Lagoon Percent Flow box.
- If the lagoon flow is over 50 percent of total flow for 5 minutes, the lagoon pumps will automatically be shut off. An alarm shutdown condition will be present on the SCADA.
 - In order to restart the pumps, you must clear all alarms.

- If the lagoon return flow fluctuates over 50 percent of the total flow regularly, decrease the Washwater Return Pump Station Discharge Valve set point until the lagoon return flow remains below 50 percent of total flow.

Prepared by: [Signature]

Date: 05/09/14

Approved by: [Signature]

Date: 5-9-14

*This SOP is considered effective on the date it is approved. SOP's are to be reviewed and/or updated annually or any time this process has changed.

Reviewed by: _____

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Sign below and date that you have received training on this SOP. By signing you are stating that you understand and will defer to this SOP when applicable.

Printed Name	Signature	Date	Printed Name	Signature	Date