

Direct Potable Water Reuse Standard Operating Procedure

Wichita Falls, Texas

Ground Storage Tank Level Procedure

This SOP supersedes any previous SOP on this topic.

INTRODUCTION

In order to maintain proper disinfection requirements CT's, the 10 MG GST level will need to be monitored on a continuous basis.

OBJECTIVE

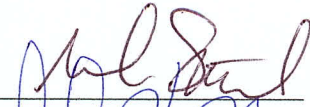
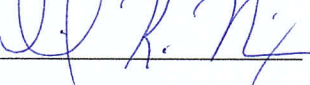
To ensure that CT disinfection credit is maintained.

PROCEDURE

The 10 MG GST will be the only ground storage tank used at the Cypress SWTP for the duration of the DPR full scale operation. In order to maintain CT credit for disinfection, the level must be monitored and levels must be maintained as follows:

- The minimum operating level of the 10 MG GST is 50% of the total capacity, 20 feet.
- The water level should be fluctuated regularly to ensure proper rotation of the water.
- The proper operation will require cooperation and communication with the Jasper SWTP as fluctuations in flow to the distribution system are needed at the Cypress SWTP.
- As the ground storage level nears maximum capacity, 40 feet, the Jasper SWTP Operator should be contacted to reduce discharge flows to the distribution system. The Cypress SWTP high service pump discharge flow should be increased to a discharge value greater than 10 MGD (or greater than the current plant treatment).
- When the ground storage level nears minimum (50%) capacity, at 22 feet, the Jasper SWTP Operator should be contacted to increase discharge flows to the distribution system. The Cypress SWTP high service pump discharge flow should be decreased to a discharge valued less than 10 MGD (or less than the current plant treatment).
- If at any time the 10 MG GST level is less than 50% capacity, 20 feet, the Cypress SWTP high service pump discharge flows should be reduced immediately to a flow less than the current plant treatment. The Jasper Operator should be immediately contacted to increase the discharge flow to the distribution system according to the current system demand.
 - The 10 MG GST level **MUST NOT** be less than 50% capacity, 20 feet, for a period longer than 4 hours (see CT Calculation SOP).

- The GST level should be monitored from a SCADA work station by Operators until the level is greater than 20 feet. The Cypress SWTP high service discharge flow should be reduced enough to ensure the level will be greater than 50% capacity within the 4-hour time.

Prepared by:  Date: 05/09/14
 Approved by:  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: _____ Date: _____
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Sign below and date that you have read 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