

LOSS RAC Discussion Agenda & Record of Decisions

Issue Paper for Technical Subcommittee Meeting		<i>Number of Members Present:</i> _____	
Engineering / Design Topics		Topic Number: 23	
		50% +1= _____	Two Thirds = _____
Topic Statement	Determine what detail in the RS&Gs for various technologies should be added as requirements in the LOSS rule.		
Background	With technical input from the TRC, DOH developed RS&Gs for pressure distribution, subsurface drip systems, mound systems, intermittent sand filters, recirculating gravel filters, and sand lined trenches. These RS&Gs serve as guidance to local health jurisdictions that permit OSS with daily design flows less than 3,500 gpd. Currently, all LOSS require pressure distribution. The small system rule requires all systems from 1,000 to 3,500 gpd to also have timed dosing, a requirement that probably should apply to LOSS, also, to be consistent. If DOH is going to require some specific detail, that needs to be added to the LOSS rule.		
Problem Statement	<ul style="list-style-type: none"> The legal counsel for the DOH wastewater program states that whatever will be required by DOH to approve a LOSS needs to be specifically in the rule. In other words, if something “shall” be included, it needs to be in the rule. If something “should” be done, it can remain in guidance. There’s considerable detail in the various RS&Gs. There are various options available to the design professional to meet some of the desired objectives. Yet, each RS&G must be evaluated to determine what “shall” be required for LOSS and what is recommended or “should” be done. 		
Reference / Research	Pages 25-29 of the LOSS Rule Foundation Document (handed out initially at the February meeting) contains the results from the first LOSS rule development process and DOH LOSS staff thoughts.		
Questions	<p>Go through each technology of the LOSS Rule Foundation Document and determine whether there is agreement with what’s in the document. Familiarity with the specific technology RS&G will be helpful in making this determination. What needs to be deleted/added/changed?</p> <p>1. Pressure Distribution (See page 25 of LOSS Rule Foundation Document)</p> <p>TRS Recommendations:</p> <p><u>Control Panel Requirements</u></p> <p>Bullet 4: Change “located within line of sight of pump tank” to “cut-off switch within line of sight of pump tank.”</p> <p>Bullet 6: Delete “capacity for remote or off-site operation and alarm notification.”</p> <p>Bullet 7: Delete “Capability to connect to an emergency power generator – option when smaller than required pump chamber volume is proposed.”</p> <p><u>Other Requirements</u></p> <p>Bullet 3: Change “Class 1, Division 1” to “all electrical components.”</p> <p>Bullet 8: Delete – change “Minimum volume of each dose at least 5 times internal volume of pipe network to be pressurized” to language reflecting intent – to include volume of pipe network that drains and <u>move to guidance.</u></p> <p><u>Discussion:</u></p> <p>Include means for actual flow measurements and include directions in O&M manual for the LOSS.</p> <p>2. Subsurface Drip (See page 26 of the LOSS Rule Foundation Document)</p> <p>TRS Recommendations:</p> <p><u>Control Panel Requirements</u></p> <p>Bullet 5: Change “located within line of sight of pump tank” to “cut-off switch within line of sight of</p>		

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pump tank.”

Other Requirements

Bullet 1: Minimum install depth: 6 inches vs. at grade then cover with 6 inches – **requires further research (Rodney)**. May affect application rate.

Bullet 4: Delete effluent filter requirement. Will be in new tank rule.

Bullet 6: Change “minimum of 12 evenly spaced doses per day” to “minimum volume needed to pressurize system”. Should be in the rule, not guidance.

<i>Committee Vote</i>		
<i>GRN</i>	<i>YEL</i>	<i>RED</i>

- Intermittent Sand Filter (can meet Treatment Level B) (See page 27 of LOSS Rule Foundation Document)

TRS Recommendations:

Required Media Specs

Bullet 2: Change to “current edition of ASTM C-33.”

Discussion

ASTM C33 sands have more fines (minus #100 sieve) than “Coarse Sand.” Cost and availability of sands can be a problem. **Bill Stuth will provide information** on availability of sands with other gradations.

<i>Committee Vote</i>		
<i>GRN</i>	<i>YEL</i>	<i>RED</i>

- Sand Lined Trench (can meet Treatment Level B)

TRS Recommendations: Not yet addressed.

<i>Committee Vote</i>		
<i>GRN</i>	<i>YEL</i>	<i>RED</i>

- Recirculating Gravel Filter (can meet Treatment Level C)

TRS Recommendations: Not yet addressed.

<i>Committee Vote</i>		
<i>GRN</i>	<i>YEL</i>	<i>RED</i>

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