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Environmental Resources Management

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April 4, 2014

Chief - Clean Water Enforcement Branch
Water Protection Division
ATTN: Brad Ammons,
U.S. Environmental Protection Agency, Region 4
61 Forsyth Street, S.W.
Atlanta, GA 30303

Florida Department of Environmental Protection
Southeast District – Suite 200
400 N. Congress Avenue
West Palm Beach, FL 33401
ATTN: Compliance/Enforcement Section

RE: Proposed Changes for Chapter 24-42.2 of the Code of Miami-Dade County as Required by the Consent Decree, Case No. 1:12-cv-24400-FAM

In conformance with the requirements set forth in Paragraph 18 (e) (iii) and Appendix B of the above referenced Consent Decree, please find attached the proposed amendment to Chapter 24-42.2 of the Code of Miami-Dade County, also known as the Volume Sewer Customer Ordinance.

Upon approval of this submittal by the EPA, the approved document will be presented to the Miami-Dade County Board of County Commissioners for approval.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering such information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Should you have any questions regarding this matter, please contact Mr. Rashid Istambouli, P.E., Chief of Pollution Regulation Division at (305) 372-6754.

Sincerely,



Lee N. Hefty,
Assistant Director

Enclosure: Text of proposed change to Chapter 24-42.2 of the Code of Miami-Dade County

c: John Renfrew P.E., Director, MDWASD
Rashid Istambouli, P.E., Chief, RER-DERM Pollution Regulation
Carlos L. Hernandez, P.E., RER-DERM Wastewater Permitting Section
Robert A. Cuevas, County Attorney, Miami Dade County

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New Definitions to be included in Section 24-5

>>Asset Management shall mean a management program that maintains a desired level of service for utility owned or operated WCTS considering life cycle cost to ensure compliance with regulatory requirements.<<

>>FOG shall mean fats, oils, and grease.<<

>>Level Of Service (LOS) shall mean the quality of service to be delivered by a utility to its customers, taking into consideration the prevention of overflows, provision for uninterrupted service without backups, limitation of excessive infiltration and inflow, odor control, provision of suitable maintenance and replacement of aging components, prevention of nuisance conditions at pump stations, avoidance of excessive costs and compliance with regulatory requirements. Life cycle costs shall be considered.<<

>>Life Cycle Cost (LCC) shall mean the sum of all recurring and one-time (non-recurring) costs over the full life span or a specified period of a structure, component, or system, less the remaining (residual or salvage) value at the end of ownership or its useful life.<<

>>Peak flow shall mean the greatest flow at any point in the WCTS averaged over a sixty (60) minute period expected to occur as a result of a 4.5 inch one day rain event.<<

>>Supervisory Control And Data Acquisition (SCADA) shall mean an electronic system to provide a utility with information and control functions for all pump stations in the WCTS at a central location. These systems are generally intended to be monitored on a 24-hour basis.<<

* * *

Changes to Sec. 24-18, Operating permits

>>24-18. (A)(3) ~~[[Private sewage pumping station]]~~ Non-utility owned or operated sanitary sewer collection systems:

(a) Which include a sanitary sewer pump station that receives sewage from a building drain and conveys sewage to a utility or non-utility; or

(b) Which includes a gravity collection system containing 1000 or more feet of six (6) inch nominal size or larger pipe beyond the building drain(s).<<

~~[[20]]~~>>19<< Locations at which a site rehabilitation action has been completed in accordance with the provisions set forth in Section 24-44 (2)(k)(ii).

* * *

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Changes to Section 24-42.2

Sec. 24-42.2. Sanitary sewer system collection and transmission systems.

>>(1) Reference Documents. The following documents, as amended from time to time, shall be used as a reference for the requirements set forth in this Section:

- (a) U.S. EPA's Sewer System Infrastructure Analysis and Rehabilitation Handbook (October 1991, EPA/625/6-91/030).
- (b) EPA's Handbook: Condition Assessment of Wastewater Collection Systems (State of Technology Review Report). EPA/600/R-10/049, May 2009
- (c) EPA's Handbook: State of Technology Report for Force Main Rehabilitation, EPA/600/R-10/10/044, March 2010
- (d) EPA's Handbook: Condition Assessment of Wastewater Collection Systems (State of Technology Review Report), EPA/600/R-09/049, May 2009
- (e) Existing Sewer Evaluation and Rehabilitation, WEF Manual of Practice No. FD-6, 1994
- (f) Design of Wastewater and Stormwater pumping Stations, WER Manual of Practice No FD-4
- (g) Guide for Evaluating Capacity, Management, Operations, and Maintenance (CMOM) Programs at Sanitary Sewer Collection Systems, EPA 305-B-05-002
- (h) Manpower Requirements for Wastewater Collection Systems in Cities and Towns of up to 150,000 Population. EPA 832-R-73-104
- (i) Manpower Requirements for Wastewater Collection Systems in Cities and Towns of 150,000 to 500,000 Population. EPA 832-R-74-102
- (j) Gravity Sanitary Sewer Design and Construction, WEF Manual of Practice No. FD-5, 2007
- (k) Wastewater Collection Systems Management, WEF Manual of Practice No. FD-7, 2009
- (l) Recommended Standards for Wastewater Facilities, Health Education Services, 2004<<

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68 ~~[(4)]~~>>(2)<<Existing gravity sanitary sewer requirements.

69 (a) Each ~~[[publicly or privately]]~~ >>utility or non-utility<< owned or operated sanitary
70 sewer collection system shall be evaluated in order to identify and reduce
71 infiltration and inflow into the sanitary sewer collection system >>to less than five
72 thousand (5,000) gallons per inch pipe diameter per day per mile of pipe and
73 laterals<<. The >>utility or non-utility<< ~~[[person responsible for the sewer
74 system's operation]]~~ shall implement a sewer system evaluation survey (SSES)
75 >>and submit a report summarizing the findings of the SSES to the Department for
76 review and approval.<< ~~[[and, if required, a rehabilitation program, incorporating
77 the provisions and requirements set forth in the U.S. EPA's Sewer System
78 Infrastructure Analysis and Rehabilitation Handbook (October 1991,
79 EPA/625/6-91/030), designed to identify and reduce sewer system infiltration and
80 inflow to a level which meets the standards set forth in Section 24-42.2(1)(d). Such
81 evaluation activities shall be conducted in a manner so that the total length of the
82 gravity sewer lines and associated manholes in the sanitary sewer collection system
83 is evaluated during the first five year period of the program, and every ten year
84 period, thereafter. Alternatively, the person responsible for the sewer system's
85 operation shall, within forty five (45) days after the effective date of this section,
86 submit to the Director or the Director's designee for the Director's or the Director's
87 designee's review and approval a report which provides a detailed description of a
88 sewer system evaluation survey and rehabilitation program which incorporates the
89 provisions and requirements set forth in the U.S. EPA's Sewer System
90 Infrastructure Analysis and Rehabilitation Handbook (October, 1991
91 EPA/626/6-91/030) and which, when implemented, provides effective and
92 substantial compliance with the requirements of this section of the Code.]] >>SSES
93 reports are due on or before each and every ten (10) year anniversary of November
94 12, 2002, the original due date required by this Chapter. Such evaluation activities
95 shall be conducted in a manner so that the total length of the gravity sewer lines and
96 associated manholes in the sanitary sewer collection system is evaluated.<< Said
97 report shall include, in addition to any of the above requirements, decision making
98 criteria, procedures and protocols for prioritization of the evaluation of gravity
99 sewer lines and associated manholes, and ~~[[for the selection of]]~~ >>selected
100 <<rehabilitation methods to be used >>if the infiltration and inflow into the
101 sanitary sewer collection system is greater than or equal to five thousand (5,000)
102 gallons per inch pipe diameter per day per mile of pipe and laterals. Any and all
103 rehabilitation work proposed to correct deficiencies identified during the SSES
104 shall be completed within four (4) years after the submission of the SSES report.
105 A second report, noting the completion of this work and describing the testing done
106 showing compliance with the Code requirements, shall be submitted to the
107 Department within four (4) years after the submission of the SSES report<<.
108 ~~[[Upon its approval, the program shall be implemented in a manner so that the
109 sewer system evaluation survey is conducted on the total length of the gravity
110 sewer lines and associated manholes during the first five year period of the
111 program and every ten year period thereafter. For purpose of compliance with
112 either alternative, infiltration and inflow evaluations and rehabilitation work~~~~

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113 ~~performed between July 1, 1992 and the effective date of this section can be~~
114 ~~credited towards the first five-year requirements provided the person responsible~~
115 ~~for the sewer system's operation submits to the Director or the Director's designee,~~
116 ~~for the Director's or the Director's designee's review and approval, a report detailing~~
117 ~~the work performed and the results obtained as required under Section~~
118 ~~24-42.2(1)(f)(iv).]]~~

119 >>(i) Flow testing for the SSES shall be done between June 15 and September 15
120 except as otherwise approved by the Director or the Director's designee.
121 In areas where the groundwater level is tidally influenced, the testing shall
122 be carried out within two (2) hours of the local high tide.<<

123 >>(ii)<< In the event that implementation of the initial sewer system infiltration and
124 inflow rehabilitation programs fail to achieve the performance standards
125 established in this section, the person responsible for the system's operation
126 may, in lieu of performing additional rehabilitation, submit a cost-benefit
127 analysis which analyzes the feasibility of performing additional
128 rehabilitation to achieve said performance standards. If the Director or the
129 Director's designee determines that there is no technically feasible,
130 economically reasonable means of compliance, then no further
131 rehabilitation shall be required >>during the current cycle<<.

132
133 (b) ~~[[Those portions of a sewage lateral connection which are the responsibility of the~~
134 ~~private property owner as identified by policy or ordinance of the publicly-owned~~
135 ~~or operated sanitary sewer collection system, or when no such identification exists,~~
136 ~~the portions of lateral located upon privately owned real property, are the~~
137 ~~responsibility of the private real property owner who shall insure the proper~~
138 ~~operation, maintenance and repair of said portions of the sewage lateral~~
139 ~~connection.]]~~ Where an evaluation pursuant to Section 24-42.2~~[[(+)]>>(2)<<(a)~~
140 ~~above indicates that a >>private lateral<< [[privately owned portion of a sewage~~
141 ~~lateral connection]] is a source of infiltration or inflow, or both, to a [[publicly or~~
142 ~~privately]] >>utility or non-utility<< owned or operated sanitary sewer, the~~
143 ~~>>utility or non-utility<< [[owner or operator of the sanitary sewer collection~~
144 ~~system]] shall report to the Director or the Director's designee the source of the~~
145 ~~infiltration or inflow within thirty (30) days from the date of discovery of said~~
146 ~~discharges. >>The property owner shall repair or replace the portion of private~~
147 ~~lateral which is the source of infiltration or inflow, or both, within ninety (90) days~~
148 ~~of notification.<< The Director or the Director's designee shall commence~~
149 ~~enforcement actions, if required, to cause the cessation of the infiltration or inflow.~~

150 ~~[[e) — Notwithstanding any other provision in this section, all publicly owned or operated~~
151 ~~sanitary sewer collection systems shall participate in a County wide, regional~~
152 ~~rainfall dependent peak flow management study. Said peak flow management~~
153 ~~study shall, at a minimum, perform the following functions: (a) characterize~~
154 ~~infiltration and inflow of water into the sanitary sewer collection system; (b)~~
155 ~~predict peak flows to each pump station in the sanitary sewer collection system; and~~

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156 ~~(e) assess each pump station's ability to manage peak flows with the back-up pump~~
157 ~~out-of-service. Upon implementation of a peak flow management study the person~~
158 ~~responsible for the operation of the publicly owned or operated sanitary sewer~~
159 ~~collection system shall submit to the Director or the Director's designee the results~~
160 ~~of said study along with a plan of corrective actions and schedule of~~
161 ~~implementation for each and every pump station within the sanitary sewer~~
162 ~~collection system which was identified as not capable of managing peak flows with~~
163 ~~the back-up pump out-of-service.]]~~

164 ~~(d) The sewer system infiltration and inflow rehabilitation programs shall be sufficient~~
165 ~~to insure that sewer system infiltration and inflow into the rehabilitated sanitary~~
166 ~~sewer collection system shall be less than five thousand (5,000) gallons per inch~~
167 ~~pipe diameter per day per mile of pipe and laterals, or complies with best~~
168 ~~management practices as required by the U.S. EPA's Sewer System Infrastructure~~
169 ~~Analysis and Rehabilitation Handbook (October 1991, EPA/625/6-91/030).]]~~

170 >>(c)<< ~~[[All persons operating a publicly or privately]]~~ >> Each utility or non-utility<<
171 owned or operated sanitary sewer system shall provide the following reports to the
172 Director or the Director's designee>>:;<<[[.]]

173 (i) The daily average pump station operating time and the multiple and
174 variable speed daily average pump station power consumption, as
175 applicable, for each pump station in the sanitary sewer system shall be
176 reported to the Director or the Director's designee on a monthly basis no
177 later than >>fourteen (14) calendar days<< ~~[[the seventh day]]~~ after the end
178 of the preceding monthly reporting period. The report shall be in such form
179 as prescribed by the Director or the Director's designee. The report shall
180 include an explanation for any single event, Act of God, or other
181 documentable reason which leads to excessive pump station operating time
182 or power consumption. >>The Director or Director's designee may
183 exclude<< ~~[[These can be cause for exclusion of]]~~ such data from the
184 nominal average pump operating time calculations.

185 (ii) The existence of stormwater discharges into any ~~[[publicly or privately]]~~
186 >>utility or non-utility<< owned or operated sanitary sewer collection
187 system shall be reported to the Director or the Director's designee within
188 thirty (30) days from the date of discovery of said discharges ~~[[by the~~
189 ~~person responsible for the operation of said system]]~~. >>All stormwater
190 discharges into sanitary sewers shall be corrected within six (6) months of
191 discovery.<< The status of corrective actions to eliminate stormwater
192 discharges into any sanitary sewer collection system shall be reported
193 >>to<< ~~[[by]]~~ the Director or the Director's designee semiannually, January
194 1 and July 1 of each year, >>by<< ~~[[to]]~~ the person responsible for the
195 operation of said system.

196 >>(iii)<<[[(iv)]] An annual report documenting all completed sewer system evaluations and
197 rehabilitation work, as well as a schedule for any proposed rehabilitation

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198 work shall be submitted to the Director or the Director's designee no later
199 than thirty (30) days after the end of each calendar year. ~~[[Notwithstanding~~
200 ~~the foregoing, any and all rehabilitation work proposed to correct~~
201 ~~deficiencies identified during the sewer system evaluation survey shall be~~
202 ~~completed within four (4) years after completion of the evaluation work, or~~
203 ~~unless a revised schedule is approved by the Director or the Director's~~
204 ~~designee.]]~~

205

206 ~~[[2]]>>(3) Utility and non-utility<< ~~[[M]]>>m<<onitoring >>and~~
207 ~~identification<<requirements.~~~~

208 (a) ~~[[All publicly or privately owned or operated sanitary sewer collection~~
209 ~~systems shall provide a properly functioning meter for each]] >>Each<<~~
210 ~~pump in each and every pump station >>shall be provided with a properly~~
211 ~~functioning meter<< which measures either elapsed pump operating time or~~
212 ~~power consumption for each pump station or the equivalent thereof as~~
213 ~~approved by the Director or the Director's designee.~~

214

215 (b) ~~[[All publicly owned or operated sanitary sewer collection systems shall~~
216 ~~have the capacity or capability to monitor their pump stations in a manner~~
217 ~~so as to prevent overflows.]]>>All pump stations shall be clearly marked~~
218 ~~with the identification number for the pump station and a 24-hour contact~~
219 ~~phone number for the operator of the pump station.<<~~

220

221 ~~[[3]]>>(4)<<[[Pump station inspection and repairs.]]>>Requirements for non-utility pump
222 ~~stations.<<~~~~

223 (a) All ~~[[publicly or privately owned or operated sanitary sewer system]]~~ pump
224 stations shall be inspected >>not less than quarterly<< ~~[[annually]]~~ for the
225 purpose of identifying any equipment malfunction and physical
226 deficiencies that could lead to equipment malfunctions. All persons
227 operating any and all ~~[[publicly or privately owned or operated]]~~ sanitary
228 sewer pump stations shall complete the correction of all equipment
229 malfunctions and physical deficiencies that could lead to equipment
230 malfunctions identified during the pump station inspections no later than six
231 (6) months after the date during which the inspection was completed. If an
232 equipment malfunction or physical deficiency causes or contributes to an
233 overflow condition, correction or repair of the malfunction or deficiency
234 shall be completed no later than sixty (60) days from the date that the
235 overflow condition is identified.

236 (b) In the event that the person responsible for the operation of any ~~[[publicly or~~
237 ~~privately owned or operated-]]~~ sanitary sewer pump station determines that a
238 pump station which has caused or contributed to an overflow condition,
239 should be upgraded, rather than repaired as set forth in ~~[[4]]~~

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240 >>24-42.2(4)(a)<<above, said person shall, within thirty (30) days of the
241 date the overflow condition is identified, submit to the Director or the
242 Director's designee for approval a plan for the upgrade along with a
243 proposed schedule of implementation.

244 >>(c)<< All ~~[[publicly or privately owned or operated]]~~ sanitary sewer collection
245 systems shall >>be maintained<<~~[[maintain their respective systems]]~~ in a
246 manner so as to prevent ~~[[or]]~~>>and<< minimize the possibility of
247 overflows.

248
249 >>(d)<< All ~~[[publicly or privately owned or operated]]~~ sanitary sewer collection
250 systems shall have a written maintenance plan including, but not limited to,
251 inspection procedures>>,<< preventative maintenance schedules,
252 corrective maintenance procedures and reporting procedures.

253 >>(e)<< All pump stations shall, at a minimum, ~~[[install]]~~ >>maintain<< alarm or
254 monitoring equipment which reports the following information:

255 >>(i)<< High water level alarms in wet wells;

256 >>(ii)<< Pump station power failures.

257 >>(f)<< All system operators shall monitor their systems in a manner that allows
258 sufficient response time to correct the detected problem prior to overflow
259 occurring ~~[[or]]~~>>and<< to minimize the extent of an overflow.

260
261 >>(5) Electronic Atlas.

262
263 Each utility shall provide an<< ~~[[An]]~~ electronic sanitary sewer system atlas, in a
264 format compatible with Miami-Dade County Water and Sewer Department's
265 electronic atlas and approved by the Director or the Director's designee,
266 >>which<< shall be submitted to the Director or the Director's designee no later
267 than January 6, 2016. The electronic atlas shall include delineation of all pump
268 station basins (i.e., sewer service areas) and pump station locations (including X,Y
269 coordinates); pump station specifications, which at a minimum shall include
270 number of pumps, horsepower and pump drive type for each pump, flow rate and
271 total dynamic head at rated operating point; emergency power supply; all gravity
272 sewer lines, including diameter, material, and year installed; manholes and siphons
273 with all inverts and rim elevations; force mains, including diameter, material, and
274 year installed; valves, including air release, check, and isolating (plug, gate,
275 butterfly, and ball valves); flow meters and other items as may be determined by the
276 Director or the Director's designee.

277
278 Updates to the electronic atlas shall be submitted to the Director or the Director's
279 designee annually. >>If no changes have been made to the WCTS, the Utility shall
280 certify to the Department that no changes have been made during the previous

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281 year.<<

282

283 ~~[(4)]>>(6)<<~~ *Collection and transmission system model.* All ~~[[publicly]]>>~~ utility<< owned or
284 operated sanitary sewer collection systems shall participate in a County-wide, regional
285 computerized collection and transmission system model or models to: i) assist in the
286 development and implementation of operation and maintenance procedures to optimize
287 transmission capacity within the collection system; and ii) evaluate the impact of
288 infiltration and inflow rehabilitation programs, proposed system modifications, upgrades
289 and expansions to the transmission capacity and performance of the collection system. The
290 model or models for each collection and transmission system shall be updated at intervals
291 of no more than five (5) years. >>The model for each utility shall be capable of predicting,
292 during conditions of expected peak flow, the flow in each force main and major gravity
293 main, the hydraulic pressure at any point in any force main, the flow capacity at each pump
294 station with and without the backup pump, the peak pumping rate at each station, and the
295 likelihood and location of SSOs and surcharged conditions where the backup pump is out
296 of service.<< The design and development and subsequent updates of the model or models
297 required herein shall be approved by the Director or the Director's designee prior to
298 implementation.

299 ~~[(5)—Maintenance.]~~

300 ~~[(6)—Spare parts. All publicly owned or operated sanitary sewer collection systems shall,~~
301 ~~maintain an inventory of spare parts or suppliers and vendors necessary to prevent~~
302 ~~sustained sewage spills, overflows and surcharge conditions resulting from equipment~~
303 ~~malfunction or deterioration. The inventory of spare parts required pursuant to this section~~
304 ~~shall be reviewed and updated by the Utility, at a minimum, on an annual basis. Certain~~
305 ~~critical parts may be secured from vendors or other systems on an as needed basis~~
306 ~~provided, however, that the overall system integrity is maintained.]]~~

307 (7) ~~[[Exemptions. Notwithstanding the foregoing, any publicly owned and operated sanitary~~
308 ~~sewer collection system which operates a federal or state permitted wastewater treatment~~
309 ~~facility and which discharges wastewater to the County's regional system on an emergency~~
310 ~~basis only, will not be required to comply with the provisions set forth in Section~~
311 ~~24-42.2(1) through (6).]]~~

312 >>CMOM requirements for utilities. Within six (6) months of the effective date of this
313 Section, each utility shall submit to the Department an approvable Plan of Compliance for
314 the implementation of a CMOM program that shall include all the requirements set forth in
315 Section 24-42.2 (8) through (13). All of the staffing requirements not otherwise noted in
316 Section 24-42.2 (8) through (13), shall be satisfied within twelve (12) months of the
317 Director or Director's designee approving the Plan of Compliance.

318 If the Director or Director's designee disapproves the Plan of Compliance, the utility shall
319 resubmit the corrected Plan of Compliance within sixty (60) days of notification. If the
320 resubmitted Plan of Compliance is disapproved by the Director or Director's designee, the
321 utility shall resubmit the corrected Plan within thirty (30) days of notification. If the
322 utility does not provide the required documents within the times noted, or if the second

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323 resubmittal is determined to be inadequate, or the utility does not implement the actions
324 proposed in a timely manner, the utility shall be determined to be nonresponsive. The
325 Director or Director's designee shall not issue any certification of adequate transmission
326 and treatment capacity for new additional sewage flow for any facility served by a utility
327 determined to be nonresponsive. Once the Plan of Compliance is approved by the Director
328 or the Director's designee, the utility shall implement the Plan of Compliance according to
329 the schedules provided in Section 24-42.2 (8) through (13) or as provided in the Plan of
330 Compliance approved by the Director or the Director's designee.<<

331
332 >>(8) Sewer Overflow Response Plan (SORP). All utilities shall develop and maintain a SORP
333 requiring, at a minimum, the following:

334
335 (a) Whenever a SSO is identified, the utility shall provide the following reports:

336 (i) Within two (2) hours of the utility's discovery of a Sanitary Sewer
337 Overflow (SSO), the utility shall verbally report all SSOs to the Department
338 Emergency phone number, providing the following information: location
339 and source of the SSO, whether the release is ongoing, whether the release
340 has reached surface water, and the estimated flow rate or total discharge.

341 (ii) Within twenty-four (24) hours of the utility's discovery of a SSO reaching
342 waters of the United States or the State, or a SSO equal to or exceeding one
343 thousand (1000) gallons, or a SSO that will endanger public health or the
344 environment, the utility shall verbally report the SSO to the FDEP by way
345 of the State Warning Point Hotline, noting the location and volume of the
346 overflow.

347 (iii) Within five (5) days of the utility's discovery of a SSO, the utility shall
348 provide to the Department a written report containing the following:

349 1. The location of the SSO by street address, or any other appropriate
350 method (i.e., latitude-longitude); and

351 2. The estimated date and time when the SSO began and stopped, or, if
352 it is still an active SSO, the anticipated time to stop the SSO; and

353 3. The steps taken to respond to the SSO; and

354 4. The name of the receiving water, if applicable; and

355 5. An estimate of the volume (in gallons) of the sewage spilled; and

356 6. A description of the WCTS component from which the SSO was
357 released (such as manhole, crack in pipe, pump station wet well or
358 constructed overflow pipe); and

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- 359 7. Subject to available information, an estimate of the SSO's impact on
360 public health and to water quality in the receiving water body; and
- 361 8. The cause or suspected cause of the SSO; and
- 362 9. The date of the last SSO at the same point; and
- 363 10. The steps taken or to be taken to reduce, prevent, or eliminate
364 reoccurrence of the SSO; and
- 365 11. A list of all notifications to the public and other agencies or
366 departments; and
- 367 12. The steps taken or to be taken to clean up any surfaces that have
368 been in contact and/or contaminated by the SSO.
- 369 If the SSO reaches waters of the United States or the State, or exceeds 1,000
370 gallons, or will endanger public health or the environment, the written
371 report shall also be sent to the FDEP.
- 372 (iv) Each utility shall provide a report to the Director or the Director's designee,
373 within ninety (90) days of the start of the event, detailing all steps taken to
374 prevent a reoccurrence of the event, including work order records from
375 investigation and repair activities related to the SSO, and a list and
376 description of complaints from customers or others regarding the SSO.
- 377 (b) Each utility shall maintain, for not less than five (5) years, all records associated
378 with each SSO. The implementation of the required records program shall be
379 completed within six (6) months of approval of the Plan of Compliance.
- 380 (c) Each utility shall provide and maintain a set of procedures for responding to all
381 SSOs to stop the SSO, repair the damaged component that caused the SSO,
382 minimize the environmental impact, and minimize the chance of injury and health
383 risk of SSOs. These procedures shall include, at a minimum, the following:
- 384 (i) A detailed description of actions the utility will undertake to immediately
385 provide notice to the public (through the local news media or other means
386 including signs or barricades to restrict access) of a SSO; and
- 387 (ii) A detailed description of actions the utility will undertake to provide notice
388 to appropriate local, state, and federal agencies/authorities; and
- 389 (iii) A detailed plan (including the development of response standard operating
390 procedures) to minimize the volume of untreated wastewater transmitted to
391 the portion of the WCTS impacted by the events precipitating the SSO to
392 minimize the overflow volume; and

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- 393 (iv) A detailed description of the utility’s response to building backups,
394 including the time frame for responses and the measures to be taken to
395 clean up building backups caused by conditions in the utility’s sewer
396 system, including procedures necessary to disinfect and/or remove items
397 potentially contaminated by building backups. This shall also include a
398 description of the utility’s follow-up process to insure adequacy of cleanup.
- 399 (d) Each utility shall maintain a detailed plan of the resources to be used to correct or
400 repair the conditions causing or contributing to the SSO.
- 401 (e) Each utility shall maintain a detailed plan to ensure the preparedness to respond to a
402 SSO, including response training of utility employees and personnel of other
403 affected agencies necessary for effective implementation of the SORP in the event
404 of a SSO, and establish procedures and provide adequate training to response
405 personnel to estimate SSO volumes. The required training shall be completed
406 within six (6) months of approval of the Plan of Compliance and a description of
407 the training completed shall be included in the annual CMOM report described in
408 Section 24-42.2(14).
- 409 (f) Each utility shall maintain a list of those SSO locations within the area of the
410 WCTS served by each pump station that have been recorded as overflowing more
411 than once within the previous twelve (12) month period and/or those locations at
412 which a SSO is likely to occur first in the event of a failure at the pump station.
- 413 (g) Each utility shall maintain a description of pump station emergency bypass/pump-
414 around strategies and procedures.
- 415 (h) Each utility shall provide a public contact point, available twenty-four hours a day
416 for reporting overflows, with an established plan for activating a response to the
417 overflow. Pump stations shall be marked with a twenty-four (24) hour contact
418 number to report overflows and other problems.
- 419 (i) Each utility shall develop and maintain a rain event inspection route for inspections
420 of known potential points of overflow. Locations shall be selected based on system
421 construction and historical data (e.g., Rain Derived Infiltration Inflow (RDII),
422 SSOs, and areas subject to stormwater and/or tidal flooding). The rain event
423 inspection routes shall be created and submitted to the Director or the Director’s
424 designees within six (6) months of the approval of the Plan of Compliance.
- 425 (9) Information Management System (IMS). All utilities shall develop and maintain an IMS
426 requiring, at a minimum, the following:
- 427 (a) System component and functions:
- 428 (i) A management component to provide utility managers with guidance and
429 instruction to adequately evaluate operations, personnel training and
430 history, maintenance, customer service and sewer system rehabilitation

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- 431 activities so that overall sewer system performance can be determined and
432 utility planning can be conducted. Management reports and standard
433 management forms shall be used.
- 434 (ii) An operations function to provide utility managers and field supervisors
435 with guidance to adequately track scheduled operational activities and to
436 enhance operational performance. This component shall use operating
437 reports, with standard operation forms for field personnel and shall provide
438 for field supervisor review.
- 439 (iii) A maintenance function to provide utility managers and field supervisors
440 with guidance to adequately track scheduled maintenance activities and
441 enhance maintenance performance. This component shall use
442 maintenance reports, with standard maintenance forms for field personnel
443 and shall provide for field supervisor review.
- 444 (iv) The IMS programs shall be implemented within one year of approval of the
445 Plan of Compliance. A summary, demonstrating that the IMS programs
446 have been fully implemented, shall be submitted to the Department within
447 eighteen (18) months of approval of the Plan of Compliance and thereafter
448 included in the CMOM report.
- 449 (b) A description of information that will be entered into the system, and how it will be
450 entered and recorded.
- 451 (c) A description of the management and work reports that will be generated from
452 inputted data, including examples and frequency for review of the reports.
- 453 (d) A set of standard forms to be used by field and management personnel.
- 454 (e) A description of how the records will be maintained.
- 455 (f) A description of the computer software to be utilized for the system and cited
456 references for software training and procedures for utilizing the software.
- 457 (g) A Geographic Information System (GIS) map for the entire WCTS using software
458 compatible with the GIS system used by Miami-Dade County, and a program for
459 keeping the data current in this system, including as-built drawings and
460 information, in an electronic format compatible with the GIS system used by
461 Miami-Dade County, which shall be made available to the Department by January
462 6, 2017, and annually thereafter. In addition to storing and displaying the existing
463 WCTS data, the system shall, at a minimum, include the following capabilities:
- 464 (i) As-built drawings and information, including new and corrected asset
465 attribute data.

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- 466 (ii) A streamlined data entry process for new assets, including electronic
467 as-built data and necessary standards so that all new assets are added to the
468 GIS system within ninety (90) calendar days of their activation in the field.
- 469 (iii) The GIS shall interface with the hydraulic computer model used by the
470 utility to model the WCTS to allow information to be efficiently exported to
471 the model.
- 472 (iv) Provide a flagging process for investigators to note GIS inaccuracies.
- 473 (v) Provide for additional GIS training and refresher training.
- 474 (vi) Determination via suitable as-built drawings, or GPS or traditional
475 surveying field measurements, deviations of all manhole rim elevations and
476 sewer inverts at connections to manholes and pump stations and their
477 inclusion into GIS.
- 478 (h) Development and implementation of performance indicators to provide utility
479 managers with guidance to adequately evaluate data collected in the IMS for use in
480 determining the condition of the sewer system and an evaluation of the utility's
481 CMOM program. Performance indicators shall include, without limitation, the
482 linear footage of gravity sewer line and force main inspections, the linear footage of
483 gravity sewers cleaned, the number of manholes inspected, the number of manholes
484 cleaned/maintained, the number of inverted siphons inspected, the number of
485 inverted siphons cleaned/maintained, the number of SSOs per mile of gravity
486 sewer, the number of SSOs per mile of force main, the number of SSOs per pump
487 station, per capita wastewater flow and such other performance indicators as the
488 utility may suggest and the Department approve.
- 489 (i) Maintenance activity tracked by type (corrective, preventative, and emergency).
- 490 (10) Sewer System Asset Management Plan (SSAMP): All utilities shall develop and maintain
491 an Asset Management Program requiring, at a minimum, the following:
- 492
- 493 (a) A Current Condition Assessment of all Sewer System components shall be
494 performed annually including, but not limited to, pump station components, gravity
495 sewer lines, manholes, siphons, aerial crossings, and force mains. Data gathered
496 from the latest round of Infiltration/Exfiltration/Inflow (I/E/I) sewer assessments
497 may be used as a baseline conditional assessment to meet this component for the
498 first year. For future years, the evaluation shall be done according to the practices
499 described in sections 24-42.2(11) through (13).
- 500 (b) A statement of the Level of Service (LOS) the utility intends to provide the
501 customers it serves.

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- 502 (c) Identification of Critical Assets within the sewer system that are absolutely
503 necessary to have in service to maintain the developed LOS. This list shall be
504 evaluated and updated as necessary at intervals of no more than five (5) years.
- 505 (d) Identification of minimum LCC for each critical asset using currently recognized
506 accounting practices with all assumptions noted. The calculations of minimum
507 LCC for each critical asset shall be repeated at intervals of no more than three (3)
508 years.
- 509 (e) A long-term funding plan to fully implement and pay for all identified LCCs for
510 each critical asset. The long-term funding plan shall include all potential sources
511 of revenue and the likelihood of securing funding from each source. Long term
512 evaluation of costs and funding shall be done according to currently recognized
513 accounting practices. The Department shall be immediately notified of any changes
514 in the availability or disposition of any revenue sources. The long-term funding
515 plan shall be submitted to the Department for review and approval within one year
516 of approval of the Plan of Compliance and thereafter included in the annual CMOM
517 report.
- 518
- 519 (11) Gravity Sewer System Operation And Maintenance (O&M) Program: Each utility shall
520 develop and maintain a gravity sewer system O&M program to address SSOs and
521 blockages, particularly those caused by FOG, roots and debris. The program shall, at a
522 minimum, include the following:
- 523
- 524 (a) Written preventative O&M schedules and procedures which shall be scheduled
525 appropriately and shall include, but not be limited to:
- 526 (i) Inspection and maintenance of all gravity sewers, manholes, and inverted
527 siphons.
- 528 (ii) Identification and documentation of gravity sewers, manholes, and inverted
529 siphons condition, including grease, roots, and debris accumulation.
- 530 (iii) Identification of maintenance needs.
- 531 (iv) Scheduling preventative maintenance work and cleaning which the utility
532 may schedule in connection with the force main assessment program or the
533 force main rehabilitation/replacement program.
- 534 (b) Engineering evaluation of potential sulfide and corrosion control options and
535 control of other forms of deterioration which shall include potential problems and
536 control options including a recommendation of preferred control methods. The
537 engineering evaluation of required corrosion controls shall be completed and a
538 report summarizing the findings and recommendations shall be submitted to the
539 Department within one year of the approval of the Plan of Compliance.

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- 540 (c) Prioritization for evaluation of gravity sewers based on size of pipe, locations of
541 past SSOs, community input or other appropriate criteria. The prioritization for
542 evaluation of the gravity sewers shall be completed and submitted to the
543 Department within six (6) months of the approval of the Plan of Compliance.
- 544 (d) Inspection of gravity sewers, manholes, inverted siphons and easements, including
545 inspection of river/creek/canal crossings, stream bank encroachment toward
546 sewers, easement accessibility, including the need to control vegetative growth or
547 encroachment of man-made structures or activities that could threaten the integrity
548 of the affected gravity sewers, manholes, or inverted siphons. Inspections shall
549 include written reports and photographic/video records where appropriate.
550 Inspectors shall promptly report any evidence of past SSOs. Any observed SSO
551 shall be promptly reported in accordance with the SORP.
- 552 (e) A schedule for the maintenance of easements.
- 553 (f) A staffing and funding plan sufficient in structure, skills, numbers and funding to
554 allow completions of the operation and maintenance activities required by this
555 Section. The staffing requirements for the collection system O&M shall be met
556 within six (6) months of the approval of the Plan of Compliance. A staffing report,
557 demonstrating that the staffing requirements have been met, shall be submitted to
558 the Department within one year of the approval of the Plan of Compliance and
559 thereafter included in the annual CMOM report.
- 560 (g) Data attributes for the mapping program allowing program data to be compared in
561 the IMS against other pertinent data such as the occurrence of SSOs, including
562 repeat SSO locations and permit violations.
- 563 (h) An inventory management system that includes:
- 564 (i) A list of all critical equipment and critical spare parts, identifying each as
565 stored by the utility or not stored by the utility; and
- 566 (ii) A list identifying where critical equipment and critical spare parts that are
567 not stored by the utility may be secured to allow for timely repairs; and
- 568 (iii) Written procedures for annually updating the critical equipment and spare
569 parts inventories in the inventory management system.
- 570 (i) Monthly reports which list equipment problems and the status of work orders
571 generated during the previous month.
- 572 (j) Storm event preparation and recovery plan.
- 573 (12) Pump Station Operations And Preventative Maintenance Program: Each utility shall
574 develop and maintain a pump station operations and preventive maintenance program to
575 facilitate proper operation and maintenance activities associated with pump stations within

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- 576 the WCTS. The program shall, at a minimum, include the following:
577
578 (a) Identification of the means and modes of communication between pump stations,
579 field crews, and supervising staff.
- 580 (b) Technical specifications for each pump station within the utility WCTS including,
581 at a minimum: number of pumps, horsepower and operating point of pumps,
582 manufacturer and model and serial numbers for pumps, voltage and full load
583 current for motors, pump speed(s), type and description of station controls, station
584 type, type and size of station valves, generator type, if present, including prime
585 mover, kilowatt rating, fuel type and capacity, and nominal voltage.
- 586 (c) A description of the monitoring system for each pump station which shall
587 continuously monitor, report, and transmit information for each pump station. All
588 utility owned or operated sanitary sewer collection systems shall be continuously
589 monitored and recorded at a central location via a SCADA system, or equal. All
590 pump stations shall report a minimum of high water level, power failure, low
591 battery voltage, and remote signal failure. Pump stations with dry wells or pumps
592 larger than twenty-five (25) horsepower shall also report operating hours after
593 midnight, pump starts, wet well level, high and low level alarm set points, kilowatt
594 power usage based on pump amperage, instantaneous and average station flow
595 based on flow meter or calculated from pump amperage and discharge pressure,
596 discharge pressure, high and low pressure alarm set points, intrusion alarm, and
597 drywell flooding at drywell stations.
- 598 (d) Written preventative operations and maintenance schedules and procedures which
599 shall be scheduled not less than monthly and shall include, but not be limited to:
- 600 (i) Written procedures for periodic service and calibration of instrumentation
601 such as sensors, alarm systems, and remote monitoring equipment.
- 602 (ii) Predictive inspection and service for all pump stations including, but not
603 limited to:
- 604 1. Reading and maintaining records from elapsed time meters and
605 pump start counters; and
- 606 2. Observing and documenting wet well conditions.
- 607 3. Checking and resetting as necessary system operating points.
- 608 4. Checking and maintaining records of system pressure.
- 609 5. Checking pump station SCADA system.
- 610 6. Checking stand-by power sources.

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- 611 7. Checking motor electrical systems including, but not limited to,
612 phase line voltages, quarterly checks of motor phase current draw
613 and winding resistance; and
- 614 8. Identifying maintenance needs.
- 615 (e) Written standard emergency and reactive O&M procedures. The utility may use
616 portable pumps, portable generators, or alternate power sources as it deems
617 appropriate. The procedures shall, at a minimum, include:
- 618 (i) Criteria used to determine the need for emergency operations and
619 maintenance.
- 620 (ii) Initiation/use of stand-by power or portable pumps, where applicable.
- 621 (iii) Evaluation of the need for additional equipment for emergency or reactive
622 operations including, but not limited to, additional generators and portable
623 pumps (for pump around operations).
- 624 (iv) Evaluation of the need for on-site standby power for each pump station.
- 625 (v) Establishing standard forms, reporting procedures and performance
626 measures for emergency and reactive operations and maintenance.
- 627 (f) Inventory Management System: Each utility shall provide an inventory
628 management system that includes:
- 629 (i) A list of all critical equipment and critical spare parts, identifying each as
630 stored by the utility or not stored by the utility.
- 631 (ii) A list identifying where critical equipment and critical spare parts that are
632 not stored by the utility may be secured to allow for timely repairs.
- 633 (iii) Written procedures for annually updating the critical equipment and spare
634 parts inventories in the inventory management system.
- 635 (g) Monthly reports which list equipment problems and the status of work orders
636 generated during the previous month.
- 637 (h) A staffing and funding plan sufficient in structure, skills, numbers and funding to
638 allow completions of the operation and maintenance activities required by this
639 Section. The listing of required resource commitments including staffing,
640 contractual support and equipment shall be submitted to the Department for review
641 and approval within six (6) months of the Director or the Director's designee
642 approving the Plan of Compliance and thereafter included in the annual CMOM
643 report.

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- 644 (i) Storm event preparation and recovery plan.
- 645
- 646 (13) Force Main Operations, Preventative Maintenance And Assessment/Rehabilitation
- 647 Program. Each utility shall develop and maintain a force main operations, preventive
- 648 maintenance and assessment/rehabilitation program to facilitate proper operation and
- 649 maintenance activities associated with force mains within the WCTS. The program shall
- 650 include, at a minimum, the following:
- 651
- 652 (a) Analysis of all utility force mains including an evaluation of corrosion and sulfide
- 653 control options which shall include potential problems and corrosion control
- 654 options including recommendations of preferred corrosion control methods.
- 655 (b) Inspection of force mains and easements, including inspection of river/creek/canal
- 656 crossings, bank encroachment toward sewers, easement accessibility including
- 657 control of vegetative growth and man-made structures. Inspections shall include
- 658 written reports and photographic/video records where appropriate, and shall
- 659 include any evidence of past SSOs. Any observed SSO shall be promptly reported
- 660 in accordance with the SORP.
- 661 (c) A schedule and procedures for the maintenance of easements.
- 662 (d) A staffing and funding plan sufficient in structure, skills, numbers and funding to
- 663 allow completions of the operation and maintenance activities required by this
- 664 Section. The listing of required resource commitments including staffing,
- 665 contractual support and equipment shall be submitted to the Department for review
- 666 and approval within six (6) months of the approving the Plan of Compliance and
- 667 thereafter included in the annual CMOM report.
- 668 (e) Inventory Management System: Each utility shall provide an inventory
- 669 management system that includes:
- 670 (i) A list of all critical equipment and critical spare parts, identifying each as
- 671 stored by the utility or not stored by the utility.
- 672 (ii) A list identifying where critical equipment and critical spare parts that are
- 673 not stored by the utility may be secured to allow for timely repairs.
- 674 (iii) Written procedures for annually updating the critical equipment and spare
- 675 parts inventories in the inventory management system.
- 676 (f) Monthly reports which list equipment problems and the status of work orders
- 677 generated during the previous month.
- 678 (g) A force main criticality assessment of the structural integrity of all utility force
- 679 mains and the risk of critical failure to prioritize further assessment and/or
- 680 rehabilitation/replacement. The assessment shall be based on previous assessment

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681 of the structural integrity of the force main, size, age, pipe material of the force
682 main, length of the force main and availability of the nearest WCTS component
683 which could handle flows from that force main in the event of failure, the operating
684 pressure in the force main during peak flow events, and the availability of new pipe
685 in the event of failure.

686 (h) A force main prioritization report providing the result of the utility's force main
687 criticality assessment, including a prioritized schedule for the implementation of
688 the force main assessment program. The force main prioritization report shall be
689 submitted to the Director or the Director's designee for review and approval.

690 (i) A force main assessment program in accordance with the schedule set forth in the
691 force main prioritization report. At a minimum, the force main assessment
692 program shall include:

693 (i) Standard procedures and schedule for continual above ground assessment
694 of each force main in the WCTS, including standard forms for the visual
695 assessment of force main routes and guidelines for assessment of unusual
696 conditions, and

697 (ii) Standard procedures and schedule for continual assessment of each force
698 main in the WCTS where it crosses a surface water body or drainage way.
699 This section shall include standard forms for the visual assessment of force
700 main routes and above ground conditions that may show structural or
701 leakage issues with the force main, and

702 (iii) Standard procedures and schedules for inspecting and identifying force
703 mains that are corroded or at risk of corrosion or other degradation,
704 including a system for prioritizing repair of corrosion defects and corrosion
705 identification forms, and

706 (iv) Standard procedures and schedules for monitoring existing cathodic
707 protection measures on existing force mains, and detailed cathodic
708 protection requirements for any newly installed force mains, and

709 (v) Standard procedures and schedules for implementing acoustic monitoring
710 of the utility force mains including leak detection, acoustic monitoring for
711 wire-breaks in prestressed concrete cylinder pipe, and sonar or ultrasonic
712 monitoring for pipe defect analysis. Any information from this testing
713 shall be used to establish a list of potential corrosion problems and need for
714 rehabilitation of the force main to prevent future failures and SSO, and

715 (vi) Criteria for use of ground-penetrating radar to determine leaks, force main
716 bedding conditions and/or force main bedding voids, and

717 (vii) Assessment of the feasibility and need of installation of parallel force mains
718 to provide continuity of service in the event of a force main determined by

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719 the utility to be highly critical. Highly critical force mains include, but are
720 not limited to, 24-inch diameter or larger force mains that, in the event of a
721 failure, pose a significant impact to the economy, environment or public
722 health or safety, or any combination of those matters, as a result of not being
723 able to be isolated, bypassed, or repaired before said impacts occur.

724
725 (j) A force main rehabilitation/replacement program which shall include, at a
726 minimum, the following,

727 (i) Standard procedures for repairing each force main in the WCTS that is
728 deemed to be in need of repair pursuant to the force main prioritization
729 report and/or force main assessment program. Repair technologies shall
730 include, but not be limited to, open cut replacement of section(s) of pipe,
731 spot repairs using cured-in-place pipe, mechanical sleeves or repair clamps,
732 or joint repairs using internal sleeves or external devices.

733 (ii) Standard procedures for rehabilitating each force main in the WCTS that is
734 deemed to be in need of rehabilitation pursuant to the force main
735 prioritization report and/or force main assessment program. Rehabilitation
736 technologies shall include, but not be limited to, spray-on linings, close fit
737 linings, cured-in-place pipe, and woven hose linings.

738 (iii) Standard procedures for replacing each Force Main in the WCTS that is
739 deemed to be in need of replacement pursuant to the force main
740 prioritization report and/or force main assessment program. Replacement
741 technologies shall include, but not be limited to, open cut replacement of
742 pipe, slip-lining, pipe bursting, directional drilling, and
743 micro-tunneling/pipe jacking.

744 (k) Storm event preparation and recovery plan.

745 (l) The assessment of all the force mains in the utility WCTS shall be completed and a
746 report summarizing the findings of the assessment and a plan to remedy all
747 deficiencies shall be submitted to the Department within six (6) months of the
748 approval of the Plan of Compliance, and within six months of each five (5) year
749 anniversary of the date of the approval of the Plan of Compliance. All force main
750 deficiencies discovered in each assessment shall be remedied within fifty-four (54)
751 months of the due date of the respective assessment.

752 (14) Annual CMOM Report. Each utility shall provide, by January 31 of each year, beginning
753 in 2016, an approvable report describing changes needed to update the utility's CMOM
754 program for the upcoming year. The report shall include, at a minimum, the current
755 staffing in all positions, new work required to maintain the utility's WCTS, new capital
756 work identified in the previous year, training carried out in the previous year, SSOs from
757 the system during the previous year and corrective actions for the SSOs, pump station and
758 mains determined to have inadequate capacity during the previous year, the corrective

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759 plans for those pump station and mains, any changes in the funding sources level and
760 availability, how the funding requirements for the previous year were met, and expected
761 funding requirements for the upcoming year.<<

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