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Ordinance No. 2011-03-02

**An Ordinance
Amending the Camden County
Code of Ordinances**

Camden County, North Carolina

**BE IT ORDAINED BY THE CAMDEN COUNTY BOARD OF COMMISSIONERS
as follows:**

Article I: Purpose

The purpose of this Ordinance is to amend Chapter 50 of the Camden County Code of Ordinances of Camden County, North Carolina, which was originally adopted by the County Commissioners on January 3, 2000, and subsequently amended and as otherwise incorporated into the Camden County Code.

Article II. Construction

For purposes of this Ordinance, underlined words (underline) shall be considered as additions to existing Ordinance language and strikethrough words (~~strikethrough~~) shall be considered deletions to existing language. New language of proposed ordinance shall be shown in italics (*italics*) and underlined.

**Article III. Amend Chapter 50 as amended of the Camden County Code
which shall read as follows:**

CHAPTER 50: WATER

§ 50.02 CROSS CONNECTION CONTROL

(A) The purpose of this cross connection control article is to define the authority of the South Camden Water & Sewer District as the water purveyor in the elimination of all cross connections within its public potable water supply.

(B) This article shall apply to all users connected to the South Camden Water & Sewer District's public potable water supply regardless of whether the user is located within the county limits or outside of the county limits.

43
44 (C) This article will comply with the Federal Safe Drinking Water Act (PL 93-
45 523), the North Carolina State Administrative Code (15A NCAC 08C), and the North
46 Carolina State Building Code (Volume II) as they pertain to cross connections with the
47 public water supply.
48

49 **§ 50.03 OBJECTIVES**
50

51 (A) The specific objectives of this cross connection control article for the South
52 Camden Water & Sewer District are as follows:
53

54 (1) To protect the public potable water supply of the county against actual or
55 potential contamination by isolating within the consumer's water system contaminants
56 or pollutants which could, under adverse conditions, backflow through uncontrolled
57 cross connections into the public water system.
58

59 (2) To eliminate or control existing cross connections, actual or potential,
60 between the consumer's potable water system and nonpotable or industrial piping
61 system.
62

63 (3) To provide a continuing inspection program of cross connection control
64 which will systematically and effectively control all actual or potential cross
65 connections which may now exist or be installed in the future.
66

67 **§ 50.04 RESPONSIBILITIES**
68

69 (A) Health agency. The state department of environment and natural resources has
70 the responsibility for promulgating and enforcing laws, rules, regulations, and policies to
71 be followed in carrying out an effective cross connection control program. The state
72 department of environment and natural resources also has the primary responsibility of
73 insuring that the water purveyor operates the public potable water system free of actual or
74 potential sanitary hazards, including unprotected cross connections. The state
75 department of environment and natural resources has the further responsibility of insuring
76 that the water purveyor provides an approved water supply at the service connection to
77 the consumer's water system and, further, that he requires the installation, testing,
78 and maintenance of an approved backflow prevention assembly on the service connection
79 when required.
80

81 (B) Water purveyor. Except as otherwise provided in this article, the water purveyor's
82 (South Camden Water & Sewer District's) responsibility to ensure a safe water supply
83 begins at the source and includes all of the public water distribution system, including the
84 service connection, and ends at the point of delivery to the consumer's water system. In
85 addition, the water purveyor shall exercise reasonable vigilance to insure that the
86 consumer has taken the proper steps to protect the public potable water system. To insure
87 that the proper precautions are taken, the South Camden Water & Sewer District is

88 required to determine the degree of hazard or potential hazard to the public potable water
89 system; to determine the degree of protection required; and to ensure proper containment
90 protection through an on-going inspection program. When it is determined that a
91 backflow prevention assembly is required for the protection of the public system, the
92 South Camden Water & Sewer District shall require the consumer, at the consumer's
93 expense, to install an approved backflow prevention assembly at each service connection,
94 to test immediately upon installation and thereafter annually, to properly repair and
95 maintain such assembly or assemblies, and to keep adequate records of each test and
96 subsequent maintenance and repair, including materials and/or replacement parts.

97

98 (C) Plumbing inspection. The inspection department of the county has the
99 responsibility to not only review building plans and inspect plumbing as it is installed;
100 but, they have the explicit responsibility of preventing cross connections from being
101 designed and built into the plumbing system within its jurisdiction. Where the review of
102 building plans suggests or detects the potential for cross connections being made an
103 integral part of the plumbing system, the plumbing inspector has the responsibility, under
104 the state building code, for requiring that such cross connections be either eliminated or
105 provided with backflow prevention equipment approved by the state building code. The
106 plumbing inspector's responsibility begins at the point of delivery, downstream of the
107 first installed backflow prevention assembly, and continues throughout the entire length
108 of the consumer's water system. The plan inspector should inquire about the intended use
109 of water at any point where it is suspected that a cross connection might be made or
110 where one is actually called for by the plans. When such is discovered it shall be
111 mandatory that a suitable, approved backflow prevention assembly approved by the state
112 building code be required by the plans and be properly installed. The primary protection
113 assembly for containment purposes only shall have approval from the South Camden
114 Water & Sewer District, the state building code, and the state department of environment
115 and natural resources.

116

117 (D) Consumer. The consumer has the primary responsibility of preventing pollutants
118 and contaminants from entering his potable water system or the public potable water
119 system. The consumer's responsibility starts at the point of delivery from the public
120 potable water system and includes all of his water system. The consumer, at his own
121 expense, shall install, operate, test, and maintain approved backflow prevention
122 assemblies as directed by the South Camden Water & Sewer District. The consumer shall
123 maintain accurate records of tests and repairs made to backflow prevention assemblies
124 and shall maintain such records for a minimum period of three years. The records shall be
125 on forms approved by the South Camden Water & Sewer District and shall include the
126 list of materials or replacement parts used. Following any repair, overhaul, repiping or
127 relocation of an assembly, the consumer shall have it tested to insure that it is in good
128 operating condition and will prevent backflow. Tests, maintenance and repairs of
129 backflow prevention assemblies shall be made by personnel certified as backflow
130 prevention assembly testers.

131

132

133

134 (E) Certified backflow prevention assembly testers. When employed by the consumer
135 to test, repair, overhaul, or maintain backflow prevention assemblies, a backflow
136 prevention assembly tester will have the following responsibilities: The tester will be
137 responsible for making competent inspections and for repairing or overhauling backflow
138 prevention assemblies and making reports of such repair to the consumer and responsible
139 authorities on forms approved by the South Camden Water & Sewer District. The tester
140 shall include the list of materials or replacement parts used. The tester shall be equipped
141 with and be competent to use all the necessary tools, gauges, manometers and other
142 equipment necessary to properly test, repair, and maintain backflow prevention
143 assemblies. It will be the tester's responsibility to insure that original manufactured parts
144 are used in the repair of or replacement of parts in a backflow prevention assembly. It
145 will be the tester's further responsibility not to change the design, material or operational
146 characteristics of an assembly during repair or maintenance without prior approval of the
147 South Camden Water & Sewer district. A certified tester shall perform the work and be
148 responsible for the competency and accuracy of all tests and reports. A certified tester
149 shall provide a copy of all test and repair reports to the consumer and to the South
150 Camden Water & Sewer District's cross connection control section within ten business
151 days of any completed test or repair work. A certified tester shall maintain such records
152 for a minimum period of three years. All certified backflow prevention assembly testers
153 must obtain and employ backflow prevention assembly test equipment which has been
154 evaluated and/or approved by the South Camden Water & Sewer District. All test
155 equipment shall be registered with the South Camden Water & Sewer District cross
156 connection control section. All test equipment shall be checked for accuracy annually, at
157 a minimum, calibrated, if necessary, and certified to the South Camden Water & Sewer
158 District as to such calibration, employing an accuracy/calibration method acceptable to
159 the South Camden Water & Sewer District. All certified backflow prevention assembly
160 testers must become re-certified every two years through an approved backflow
161 prevention certification program.

162
163 **§ 50.05 DEFINITIONS.**

164
165 The following words, terms and phrases, when used in this article, shall have the
166 meanings ascribed to them in this section, except where the context clearly indicates a
167 different meaning:

168
169 **AIR-GAP SEPARATION.** A physical separation between the free flowing
170 discharge end of a potable water supply pipeline and an open or non-pressure receiving
171 vessel. An approved air-gap separation shall be at least double the diameter of the
172 supply pipe measured vertically above the overflow rim of the receiving vessel, in no
173 case less than one inch (2.54 cm).

174
175 **APPROVED.** As used in reference to a water supply, a water supply that has been
176 approved by the state department of environment and natural resources; or, as used in
177 reference to air-gap separation, a pressure vacuum breaker, a double check valve
178 assembly, a double check detector assembly, a reduced pressure principle backflow
179 prevention assembly, a reduced pressure principle detector assembly, or other backflow

180 prevention assemblies or methods means an approval by the South Camden Water &
181 Sewer District.

182

183 **BACKFLOW.** The undesirable reversal of flow of water or mixtures of water and
184 other liquids, gases, or other substances into the distribution pipes of the consumer or
185 public potable water system from any source or sources.

186

187 **BACKFLOW PREVENTION ASSEMBLY APPROVED.** The term "approved
188 backflow prevention assembly" means an assembly used for containment and/or
189 isolation purposes that has been investigated and approved by the South Camden Water
190 & Sewer District and has been shown to meet the design and performance standards of
191 the American Society of Sanitary Engineers (ASSE), the American Water Works
192 Association (AWWA), or the Foundation for Cross-Connection Control and Hydraulic
193 Research of the University of Southern California. The approval of backflow prevention
194 assemblies by the South Camden Water & Sewer District is based on a favorable report
195 by the Foundation for Cross-Connection Control and Hydraulic Research of the
196 University of Southern California, recommending such an approval. To be approved,
197 an assembly must be readily accessible for in-line testing and maintenance, and shall
198 successfully complete a one-year field evaluation within the South Camden Water &
199 Sewer District water system.

200

201 **BACKFLOW PREVENTION ASSEMBLY--UNAPPROVED.** An assembly that
202 has been investigated by the South Camden Water & Sewer District and has been
203 determined to be unacceptable for installation within the South Camden Water & Sewer
204 District water system. Consideration for disapproval and removal from the "approved
205 list" shall be based upon, but not limited to, the following criteria: (i) Due to poor
206 performance standards (i.e., significant failure rate); (ii) lack of or unavailability of
207 repair parts; and/or, (iii) poor service or response from assembly's factory
208 representative.

209

210 **BACKFLOW PREVENTION ASSEMBLY--TYPE.** An assembly used to prevent
211 backflow into a consumer or public potable water system. The type of assembly used
212 should be based on the degree of hazard either existing or potential. The types are:

213

214 (1) Double check valve assembly (DCVA).

215

216 (2) Double check detector assembly (fire system) (DCDA).

217

218 (3) Pressure vacuum breaker (PVB).

219

220 (4) Reduced pressure principle assembly (RP).

221

222 (5) Reduced pressure principle detector assembly (fire system). (RPDA).

223

224 **BACKFLOW PREVENTION ASSEMBLY TESTER—CERTIFIED.** A person
225 who has proven his competency to the satisfaction of the South Camden Water & Sewer
226 District. Each person who is certified to make competent tests, or to repair, overhaul,
227 and make reports on backflow prevention assemblies shall be knowledgeable of
228 applicable laws, rules, and regulations, and must hold a certificate of completion from
229 an approved training program in the testing and repair of backflow prevention
230 assemblies. Backflow assembly testers who hold a certificate of completion from an
231 approved training program may be required to successfully complete a practical
232 examination administered by the South Camden Water & Sewer District prior to
233 conducting test and repair work on backflow prevention assemblies in the South
234 Camden Water & Sewer District water system.

235
236 **BACKFLOW PREVENTION DEVICE—APPROVED.** A device used for
237 isolation purposes that has been shown to meet the design and performance standards of
238 the American Society of Sanitary Engineers (ASSE) and the American Water Works
239 Association (AWWA)

240
241 **BACK-PRESSURE BACKFLOW.** Any elevation in the consumer water system,
242 by pump, elevation of piping, or steam and/or air pressure, above the supply pressure
243 at the point of delivery which would cause, or tend to cause, a reversal of the normal
244 direction of flow.

245
246 **BACK-SIPHONAGE BACKFLOW.** A reversal of the normal direction of flow in
247 the pipeline due to a negative pressure (vacuum) being created in the supply line with
248 the backflow source subject to atmospheric pressure.

249
250 **CHECK VALVE—APPROVED.** A check valve that is drip-tight in the normal
251 direction of flow when the inlet pressure is at least one psi and the outlet pressure is
252 zero. The check valve shall permit no leakage in a direction reverse to the normal flow.
253 The closure element (e.g. clapper, poppet, or other design) shall be internally loaded to
254 promote rapid and positive closure. An approved check valve is only one component of
255 an approved backflow prevention assembly, i.e., pressure vacuum breaker, double
256 check valve assembly, double check detector assembly, reduced pressure principle
257 assembly, or reduced pressure detector assembly.

258
259 **CONSUMER.** Any person, firm, or corporation using or receiving water from the
260 South Camden Water & Sewer District water system.

261
262 **CONSUMER'S POTABLE WATER SYSTEM.** That portion of the privately
263 owned potable water system lying between the point of delivery and point of use and/or
264 isolation protection. This system will include all pipes, conduits, tanks, receptacles,
265 fixtures, equipment, and appurtenances used to produce, convey, store, or use potable
266 water.

267
268

269 **CONSUMER'S WATER SYSTEM.** Any water system commencing at the point of
270 delivery and continuing throughout the consumer's plumbing system, located on the
271 consumer's premises, whether supplied by a public potable water or an auxiliary water
272 supply. The system or systems may be either a potable water system or an industrial
273 piping system.
274

275 **CONTAINMENT.** Preventing the impairment of the public potable water supply by
276 installing an approved backflow prevention assembly at the service connection.
277

278 **CONTAMINATION.** An impairment of the quality of the water which creates a
279 potential or actual hazard to the public health through the introduction of hazardous or
280 toxic substances or through the spread of disease by sewage, industrial fluids, or waste.
281

282 **CROSS CONNECTION.** Any unprotected actual or potential connection or
283 structural arrangement between a public or a consumer's water system and any other
284 source or system through which it is possible to introduce any contamination or
285 pollution, other than the intended potable water with which the system is supplied.
286 Bypass arrangements, jumper connections, removable sections, swivel or change-over
287 devices, and other temporary or permanent devices through which or because of which
288 "backflow" can or may occur are considered to be cross connections.
289

290 **DOUBLE CHECK DETECTOR ASSEMBLY.** A specially designed assembly
291 composed of a line-size approved double check valve assembly with a specific bypass
292 water meter and a meter-sized approved double check valve assembly. The meter shall
293 register (in U.S. gallons) accurately for only very low rates of flow and shall show a
294 registration for all rates of flow. This assembly shall only be used to protect against a
295 nonhealth hazard (i.e., pollutant).
296

297 **DOUBLE CHECK VALVE ASSEMBLY.** An assembly composed of two
298 independently acting, approved check valves, including tightly closing shutoff valves
299 attached at each end of the assembly and fitted with properly located test cocks. This
300 assembly shall only be used to protect against a nonhealth hazard (i.e., pollutant).
301

302 **HAZARD--DEGREE OF.** The term "degree of hazard" is derived from the
303 evaluation of conditions within a system which can be classified as either a
304 "pollutional" (nonhealth) or a "contamination" (health) hazard.
305

306 **HAZARD--HEALTH.** An actual or potential threat of contamination of a physical
307 hazardous or toxic nature to the public or consumer's potable water system to such a
308 degree or intensity that there would be a danger to health.
309

310 **HAZARD--NONHEALTH.** An actual or potential threat to the quality of the
311 public or the consumer's potable water system. A nonhealth hazard is one that, if
312 introduced into the public water supply system, could be a nuisance to water customers,
313 but would not adversely affect human health.

314

315 **HAZARD--POLLUTIONAL.** An actual or potential threat to the quality or the
316 potability of the public or the consumer's potable water system but which would not
317 constitute a health or a system hazard, as defined. The maximum degree or intensity of
318 pollution to which the potable water system could be degraded under this definition
319 would cause a nuisance or be aesthetically objectionable or could cause minor damage
320 to the system or its appurtenances.

321

322 **HEALTH AGENCY.** The state department of environment and natural resources.

323

324 **INDUSTRIAL FLUIDS.** Any fluid or solution which may be chemically,
325 biologically, or otherwise contaminated or polluted in a form or concentration such as
326 would constitute a health or nonhealth hazard if introduced into a public or consumer
327 potable water system. Such fluids may include, but are not limited to: process waters;
328 chemicals in fluid form; acids and alkalis; oils, gases; etc.

329

330 **INDUSTRIAL PIPING SYSTEM—CONSUMER'S.** Any system used by the
331 consumer for transmission of or to confine or store any fluid, solid or gaseous
332 substance other than an approved water supply. Such a system would include all pipes,
333 conduits, tanks, receptacles, fixtures, equipment, and appurtenances used to produce,
334 convey, or store substances which are or may be polluted or contaminated.

335

336 **ISOLATION.** The act of confining a localized hazard within a consumer's water
337 system by installing approved backflow prevention assemblies. Disclaimer: South
338 Camden Water & Sewer District may make recommendations, upon facility inspection,
339 as to the usages of isolation devices/assemblies, but does not assume or have
340 responsibility whatsoever for such installations.

341

342 **POINT OF DELIVERY.** The property line of the customer, adjacent to the public
343 street where the South Camden Water & Sewer District's mains are located, or at a
344 point on the customer's property where the meter is located. The customer shall be
345 responsible for all water piping and control devices located on the customer's side of
346 the point of delivery.

347

348 **POLLUTION.** An impairment of the quality of the water to a degree which does
349 not create an actual hazard to the public health but which does adversely and
350 unreasonably affect the aesthetic qualities of such waters for domestic use.

351

352 **POTABLE WATER.** Water from any source which has been investigated by the
353 state department of environment and natural resources and which has been approved for
354 human consumption.

355

356 **PUBLIC POTABLE WATER SYSTEM.** Any publicly or privately owned water
357 system operated as a public utility, under a current state department of environment and
358 natural resources permit, to supply water for public consumption or use. This system

359 will include all sources, facilities, and appurtenances between the source and the point
360 of delivery such as valves, pumps, pipes, conduits, tanks, receptacles, fixtures,
361 equipment, and appurtenances used to produce, convey, treat, or store a potable water
362 for public consumption or use.

363

REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION

364 **ASSEMBLY.** An assembly containing within its structure a minimum of two
365 independently acting, approved check valves, together with a hydraulically operating,
366 mechanically independent, pressure differential relief valve located between the check
367 valves and at the same time below the first check valve. The first check valve reduces
368 the supply pressure a predetermined amount so that during normal flow and at cessation
369 of normal flow, the pressure between the checks is less than the supply pressure. In
370 case of leakage of either check valve, the pressure differential relief valve, by discharge
371 to atmosphere, shall operate to maintain the pressure between the checks less than the
372 supply pressure. The unit shall include tightly closing shutoff valves located at each end
373 of the assembly and each assembly shall be fitted with properly located test cocks. The
374 assembly is designed to protect against a health hazard (i.e., contaminant).

375

376
377 **REDUCED PRESSURE PRINCIPLE DETECTOR ASSEMBLY.** A specially
378 designed assembly composed of a line-size approved reduced pressure principle
379 backflow prevention assembly with a specific bypass water meter and a meter-sized
380 approved reduced pressure principle backflow prevention assembly. The meter shall
381 register, in U.S. gallons, accurately for only very low rates of flow and shall show a
382 registration for all rates of flow. This assembly shall be used to protect against a health
383 hazard (i.e., contaminant).

384

385 **SERVICE CONNECTIONS.** The terminal end of a service connection from the
386 public potable water system, i.e., where the South Camden Water & Sewer District
387 loses jurisdiction and sanitary control over the water at its point of delivery to the
388 consumer's water system.

389

390 **VACUUM BREAKER—ATMOSPHERIC TYPE.** The term "atmospheric
391 vacuum breaker," also known as the "nonpressure type vacuum breaker," means a
392 device containing a float-check, a check seat, and an air inlet port. The flow of water
393 into the body causes the float to close the air inlet port. When the flow of water stops,
394 the float falls and forms a check valve against back-siphonage and at the same time
395 opens the air inlet port to allow air to enter and satisfy the vacuum. A shutoff valve
396 immediately upstream may be an integral part of the device. An atmospheric vacuum
397 breaker is designed to protect against a nonhealth hazard, isolation protection only,
398 under a backsiphonage condition only.

399

400 **VACUUM BREAKER—PRESSURE TYPE.** The term "pressure vacuum
401 breaker" means an assembly containing an independently operating internally loaded
402 check valve and an independently operating loaded air inlet valve located on the
403 discharge side of the check valve. The assembly is to be equipped with properly located

404 test cocks and tightly closing shutoff valves attached at each end of the assembly. This
405 assembly is designed to protect against a health hazard (i.e., contaminant) under a back-
406 siphonage condition only.

407

408 **WATER PURVEYOR.** The owner or operator of a public potable water system,
409 providing an approved water supply to the public.

410

411 **WATER SUPPLY--APPROVED.** Any public potable water supply which has been
412 investigated and approved by the state department of environment and natural
413 resources. The system must be operating under a valid health permit. In determining
414 what constitutes an approved water supply, the state department of environment and
415 natural resources has reserved the final judgment as to its safety and potability.

416

417 **WATER SUPPLY--AUXILIARY.** Any water supply on or available to the
418 premises other than the purveyor's approved public potable water supply. These
419 auxiliary waters may include water from another purveyor's public potable water
420 supply or any natural source such as a well, spring, river, stream, etc., "used water",
421 or industrial fluids. These waters may be polluted, contaminated, or objectionable and
422 constitute an unacceptable water source over which the water purveyor does not have
423 sanitary control.

424

425 **WATER SUPPLY--UNAPPROVED.** A water supply which has not been
426 approved for human consumption by the state department of environment and natural
427 resources.

428

429 **WATER--USED.** Any water supplied by a water purveyor from a public water
430 system to a consumer's water system after it has passed through the point of delivery
431 and is no longer under the control of the water purveyor.

432

433 **§ 50.06 RIGHT OF ENTRY**

434

435 (A) Authorized representatives from the South Camden Water & Sewer District
436 shall have the right to enter, upon presentation of proper credentials and identification,
437 any building, structure, or premises during normal business hours, or at any time
438 during the event of an emergency, to perform any duty imposed by this article. Those
439 duties may include sampling and testing of water, or inspections and observations of all
440 piping systems connected to the public water supply. Where a user has security
441 measures in force which would require proper identification and clearance before entry
442 into their premises, the user shall make necessary arrangements with the security guards
443 so that upon presentation of suitable identification, South Camden Water & Sewer
444 District personnel will be permitted to enter, without delay, for the purposes of
445 performing their specific responsibilities. Refusal to allow entry for these purposes may
446 result in discontinuance of water service.

447

448 (B) On request, the consumer shall furnish to the South Camden Water & Sewer
449 District any pertinent information regarding the water supply system on such property
450 where cross connections and backflow are deemed possible.
451

452
453 **§ 50.07 ELIMINATION OF CROSS CONNECTIONS; DEGREE OF HAZARD**
454

455 (A) Cross connections are found to exist, the owner, his agent, occupant, or tenant
456 will be notified in writing to disconnect the cross connection within the time limit
457 established by the South Camden Water & Sewer District. Degree of protection
458 required and maximum time allowed for compliance will be based upon the potential
459 degree of hazard to the public water supply system. The maximum time limits are as
460 follows:
461

462 (1) Cross connections with private wells or other auxiliary water supplies—
463 immediate disconnection.
464

465 (2) All facilities which pose a health hazard to the potable water system must
466 have a containment assembly in the form of a reduced pressure principle backflow
467 prevention assembly within 60 days.
468

469 (3) All industrial and commercial facilities not identified as a health hazard
470 shall be considered nonhealth hazard facilities. All nonhealth hazard facilities must
471 install, as a minimum containment assembly, a double check valve assembly within 90
472 days
473

474 (4) If, in the judgment of the South Camden Water & Sewer District, an
475 imminent health hazard exists, water service to the building or premises where a cross
476 connection exists may be terminated unless an air gap is immediately provided, or the
477 cross connection is immediately eliminated.
478

479 (5) Based upon recommendation from the South Camden Water & Sewer
480 District, the consumer is responsible for installing sufficient internal isolation backflow
481 prevention assemblies and/or methods (i.e., air gap, pressure vacuum breakers, reduced
482 pressure principle backflow prevention assembly, double check valve assembly).
483

484 (6) Water mains not maintained by the South Camden Water & Sewer District
485 should be considered cross connections, with degree of hazard to be determined by the
486 South Camden Water & Sewer District. Degree of protection shall be based upon the
487 degree of hazard, as determined by the South Camden Water & Sewer District.
488

489 (7) In the event that a South Camden Water & Sewer District cross connection
490 control inspector does not have sufficient access to every portion of a private water
491 system (e.g., classified research and development facilities; federal government
492 property) to allow a complete evaluation of the degree of hazard associated with such

493 private water systems, an approved reduced pressure principle assembly shall be
494 required as a minimum of protection.

495

496 (B) No person shall fill special use tanks or tankers containing pesticides, fertilizers,
497 other toxic chemicals or their residues from the public water system except at a location
498 equipped with an air gap or an approved reduced pressure principle backflow
499 prevention assembly properly installed on the public water supply.

500

501 **§ 50.08 INSTALLATION OF ASSEMBLIES.**

502

503 (A) All backflow prevention assemblies shall be installed in accordance with the
504 manufactures specifications, University of Southern California guidelines and/or in the
505 latest edition of the state building code, whichever is most restrictive.

506

507 (B) All new construction plans and specifications, when required by the state
508 building code and the state department of environment and natural resources, shall be
509 made available to the South Camden Water & Sewer District for review and approval,
510 and to determine the degree of hazard.

511

512 (C) Ownership, testing, and maintenance of the assembly shall be the responsibility
513 of the customer.

514

515 (D) All double check valve assemblies must be installed in drainable pits wherever
516 below ground installation is necessary, in accordance with detailed specifications
517 provided by the South Camden Water & Sewer District.

518

519 (E) Reduced pressure principle assemblies must be installed in a horizontal position
520 unless specifically approved by the manufacturer for vertical installation. They must be
521 installed in a location in which no portion of the assembly can become submerged in
522 any substance under any circumstances. Pit and/or below grade installations are
523 prohibited. Double check valve assemblies may be installed in a vertical position with
524 prior approval from the South Camden Water & Sewer District's cross connection
525 control section, provided the flow of water is in an upward direction.

526

527 (F) The installation of a backflow prevention assembly which is not approved must
528 be replaced with an approved backflow prevention assembly.

529

530 (G) The installer is responsible to make sure a backflow prevention assembly is
531 working properly upon installation and is required to furnish the following information
532 to the South Camden Water & Sewer District cross connection control program section
533 within 15 days after a reduced pressure principle backflow preventer (RP), double
534 check valve assembly (DCVA), pressure vacuum breaker (PVB), double check detector
535 assembly (DCDA), or reduced pressure principle detector assembly (RPDA) is
536 installed:

537

- 538 (1) Service address where assembly is located.
539
540 (2) Owner and address, if different from service address.
541
542 (3) Description of assembly's location.
543
544 (4) Date of installation.
545
546 (5) Installer, include name, plumbing company represented, plumber's license
547 number, and project permit number.
548
549 (6) Type of assembly, size of assembly.
550
551 (7) Manufacturer, model number, serial number.
552
553 (8) Test results/report.
554

555 (H) When it is not possible to interrupt water service, provisions shall be made for a
556 parallel installation of backflow prevention assemblies. South Camden Water & Sewer
557 District will not accept an unprotected bypass around a backflow preventer when the
558 assembly is in need of testing, repair, or replacement.
559

560 (I) The consumer shall, upon notification, install the appropriate containment
561 assembly not to exceed the following time frame:
562

- 563 Health hazard . . . 60 days
564 Nonhealth hazard . . . 90 days
565

566 (J) Following installation, all reduced pressure principle backflow preventers (RP),
567 double check valve assemblies (DCVA), pressure vacuum breakers (PVB), double
568 check detector assemblies (DCDA), or reduced pressure principle detector assemblies
569 (RPDA) are required to be tested by a certified backflow prevention assembly tester
570 within ten days.
571

572 **§ 50.09 TESTING AND REPAIR OF ASSEMBLIES**
573

574 (A) Testing of backflow prevention assemblies shall be made by a certified backflow
575 prevention assembly tester. Such tests are to be conducted upon installation and
576 annually thereafter or at a frequency established by the South Camden Water & Sewer
577 District's regulations. A record of all testing and repairs is to be retained by the
578 customer. Copies of the records must be provided to the South Camden Water & Sewer
579 District's cross connection control section within ten business days after the completion
580 of any testing and/or repair work.
581
582

583 (B) Any time that repairs to backflow prevention assemblies are deemed necessary,
584 whether through annual or required testing or routine inspection by the owner or by the
585 South Camden Water & Sewer District, these repairs must be completed within a
586 specified time in accordance with the degree of hazard. In no case shall this time period
587 exceed:

588
589 (1) Health hazard facilities . . . 14 days

590
591 (2) Non-health hazard facilities . . . 21 days

592
593 (C) All backflow prevention assemblies with test cocks are required to be tested
594 annually or at frequency established by the South Camden Water & Sewer District's
595 regulations. Testing requires a water shutdown usually lasting five to 20 minutes. For
596 facilities that require an uninterrupted supply of water, and when it is not possible to
597 provide water service from two separate meters, provisions shall be made for a parallel
598 installation of backflow prevention assemblies.

599
600 (D) All certified backflow prevention assembly testers must obtain and employ
601 backflow prevention assembly test equipment which has been evaluated and/or
602 approved by the South Camden Water & Sewer District. All test equipment shall be
603 registered with the South Camden Water & Sewer District cross connection control
604 section. All test equipment shall be checked for accuracy annually, at a minimum,
605 calibrated, if necessary, and certified to the South Camden Water & Sewer District as
606 to such accuracy/calibration, employing a calibration method acceptable to the South
607 Camden Water & Sewer District (see subsection 28-233(e)).

608
609 (E) It shall be unlawful for any customer or certified tester to submit any record to
610 the South Camden Water & Sewer District which is false or incomplete in any material
611 respect. It shall be unlawful for any customer or certified tester to fail to submit to the
612 South Camden Water & Sewer District any record which is required by this article.
613 Such violations may result in any of the enforcement actions outlined in section 28-242.

614
615 **§ 50.10 FACILITIES REQUIRING PROTECTION**

616
617 (A) Approved backflow prevention assemblies shall be installed on the service line
618 to any premises that the South Camden Water & Sewer District has identified as having
619 a potential for backflow.

620
621 (B) The following types of facilities or services have been identified by the South
622 Camden Water & Sewer District as having a potential for backflow of nonpotable water
623 into the public water supply system. Therefore, an approved backflow prevention
624 assembly will be required on all such services according to the degree of hazard
625 present. Other types of facilities or services not listed below may also be required to
626 install approved backflow prevention assemblies if determined necessary by the South
627 Camden Water & Sewer District. As a minimum requirement, all commercial services

628 will be required to install a double check valve assembly, unless otherwise listed in this
629 subsection.

630

631 DCVA = Double check valve assembly

632 RP = Reduced pressure principle assembly

633 DCDA = Double check detector assembly

634 RPDA = Reduced pressure detector assembly

635 AG = Air gap

636 PVB = Pressure vacuum breaker

637

638 (1) Aircraft and missile plants: RP

639

640 (2) Automotive services stations, dealerships, etc.

641

642 a. No health hazard: DCVA

643 b. Health hazard: RP

644

645 (3) Automotive plants: RP

646

647 (4) Auxiliary water systems:

648

649 a. Approved public/private water supply: DCVA

650 b. Unapproved public/private water supply: AG

651 c. Used water and industrial fluids: RP

652

653 (5) Bakeries:

654

655 a. No health hazard: DCVA

656 b. Health hazard: RP

657

658 (6) Beauty shops/barber shops:

659

660 a. No health hazard: DCVA

661 b. Health hazard: RP

662

663 (7) Beverage bottling plants: RP

664

665 (8) Breweries: RP

666

667 (9) Buildings--Hotels, apartment houses, public and private buildings, or
668 other structures having unprotected cross connections.

669

670 a. (Under five stories) no health hazard: DCVA

671 b. (Under five stories) health hazard: RP

672 c. (Over five stories) all: RP

- 673
674 (10) Canneries, packing houses, and rendering plants: RP
675
676 (11) Chemical plants--Manufacturing, processing, compounding or treatment:
677 RP
678
679 (12) Chemically contaminated water systems: RP
680
681 (13) Commercial car-wash facilities: RP
682
683 (14) Commercial greenhouses: RP
684
685 (15) Commercial sales establishments (department stores, malls, etc.)
686
687 a. No health hazard: DCVA
688 b. Health hazard: RP
689
690 (16) Concrete/asphalt plants: RP
691
692 (17) Dairies and cold storage plants: RP
693
694 (18) Dye works: RP
695
696 (19) Film laboratories: RP
697
698 (20) Fire systems:
699
700 a. Systems three-fourths inch to two inches:
701 1. No health hazard: DCDA
702 2. Health hazard: (booster pumps, foam, antifreeze solution, etc.): RP
703
704 b. Systems 2 1/2 inches to ten inches or larger:
705 1. No health hazard: DCDA
706 2. Health hazard (booster pumps, foam, antifreeze solution, etc.):
707 RPDA
708
709 (21) Hospitals, medical buildings, sanitariums, morgues, mortuaries, autopsy
710 facilities, nursing and convalescent homes, medical clinics, and
711 veterinary hospitals: RP
712
713 (22) Industrial facilities:
714
715 a. No health hazard: DCVA
716 b. Health hazard: RP
717

- 718 (23) Laundries:
719
720 a. No health hazard: DCVA
721 b. Health hazard: (i.e., dry cleaners): RP
722
723 (24) Lawn irrigation systems (split taps): RP
724
725 (25) Metal manufacturing, cleaning, processing, and fabricating plants: RP
726
727 (26) Mobile home parks:
728
729 a. No health hazard: DCVA
730 b. Health hazard: RP
731
732 (27) Oil and gas production, storage or transmission properties: RP
733
734 (28) Paper and paper products plants: RP
735
736 (29) Pest control (exterminating and fumigating): RP
737
738 (30) Plating plants: RP
739
740 (31) Power plants: RP
741
742 (32) Radioactive materials or substances plants or facilities handling: RP
743
744 (33) Restaurants:
745
746 a. No health hazard: DCVA
747 b. Health hazard: RP
748
749 (34) Restricted, classified, or other closed facilities: RP
750
751 (35) Rubber plants (natural or synthetic): RP
752
753 (36) Sand and gravel plants: RP
754
755 (37) Schools and colleges: RP
756
757 (38) Sewage and storm drain facilities: RP
758
759 (39) Swimming pools: RP
760
761 (40) Waterfront facilities and industries: RP
762

763 (C) All assemblies and installations shall be subject to inspection and approval by
764 the South Camden Water & Sewer District.

765
766 **§ 50.11 CONNECTIONS WITH UNAPPROVED SOURCES OF SUPPLY**
767

768 (A) No person shall connect or cause to be connected any supply of water not
769 approved by the state department of environment and natural resources to the water
770 system supplied by the South Camden Water & Sewer District. Any such connections
771 allowed by the South Camden Water & Sewer District must be in conformance with the
772 backflow prevention requirements of this article.
773

774 (B) In the event of contamination or pollution of a public or consumer potable water
775 system, the consumer shall notify the South Camden Water & Sewer District
776 immediately in order that appropriate measures may be taken to overcome and eliminate
777 the contamination or pollution.
778

779 **§ 50.12 FIRE PROTECTION SYSTEMS**
780

781 (A) All connections for fire protection systems connected with the public water
782 system, two inches and smaller, shall be protected with an approved double check valve
783 assembly as a minimum requirement. All fire systems using toxic additives or booster
784 pumps shall be protected by an approved reduced pressure principle assembly at the
785 main service connection.
786

787 (B) All connections for fire protection systems connected with the public water
788 system greater than two inches, shall be protected with an approved double check
789 detector assembly as a minimum requirement. All fire protection systems using toxic or
790 hazardous additives or booster pumps shall be protected by an approved reduced
791 pressure principle detector assembly at the main service connection.
792

793 (C) All existing backflow prevention assemblies 2 1/2 inches and larger installed on
794 fire protection systems that were initially approved by the South Camden Water &
795 Sewer District shall be allowed to remain on the premises, as long as they are being
796 properly maintained, tested and repaired as required by this article. If, however, the
797 existing assembly must be replaced once it can no longer be repaired, or in the event of
798 proven water theft through an unmetered source, the consumer shall be required to
799 install an approved double check detector assembly or reduced pressure principle
800 detector assembly as required by subsection 28-239(20)b.
801

802 **§ 50.13 ENFORCEMENT.**
803

804 (A) The owner, manager, supervisor, or person in charge of any installation found
805 not to be in compliance with the provisions of this article shall be notified in writing
806 with regard to the corrective action to be taken. The time for compliance shall be in
807 accordance with section 28-236.

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(B) The owner, manager, supervisor, or person in charge of any installation which remains in noncompliance after the time prescribed in the initial notification, as outlined in section 28-236, shall be considered in violation of this article, and may be issued a civil citation by the South Camden Water & Sewer District. The citation shall specify the nature of the violation and the provision of this article violated, and further notify the offender that the civil penalty for such violation is as set forth in subsection (c) of this section and is to be paid to the South Camden Water & Sewer District within 30 days. If the penalty prescribed in this subsection is not paid within the time allowed, the South Camden Water & Sewer District may initiate a civil action in the nature of a debt and recover the sums set forth in subsection (c) of this section plus the cost of the action.

(C) Any offender who shall continue any violation beyond the time limit provided for in the aforementioned notification shall be subject to a civil penalty of up to \$1,000.00 per violation. Each day in which a violation of any provision of this article shall occur or continue shall constitute a separate and distinct offense.

(D) If, in the judgment of the South Camden Water & Sewer District, any owner, manager, supervisor, or person in charge of any installation found to be in noncompliance with the provisions of this article neglects his responsibility to correct any violation, such neglect may result in discontinuance of water service until compliance is achieved.

(E) Failure of a customer or certified tester to submit any record required by this article, or the submission of falsified reports/records may result in a civil penalty of up to \$1,000.00 per violation. If a certified backflow prevention assembly tester submits falsified records to the South Camden Water & Sewer District, the South Camden Water & Sewer District shall take the necessary actions to revoke certification to test backflow prevention assemblies within the potable water system for a time period not to exceed one year. The tester will then be required to complete an approved certification course to acquire a new certification. Falsification made to records/reports after becoming recertified shall result in the permanent revocation of backflow testing certification, in addition to a civil penalty as provided for in this subsection.

(F) Enforcement of this program shall be administered by the manager of the South Camden Water & Sewer District or his authorized representative.

(G) Requests for extension of time shall be made in writing to the manager of the South Camden Water & Sewer District or his authorized representative. All other appeals shall be made in accordance with the following procedures:

(1) Adjudicatory hearings. A customer assessed a civil penalty under this section shall have the right to an adjudicatory hearing before a hearing officer designated by the manager of the South Camden Water & Sewer District upon making written demand,

853 identifying the specific issues to be contended, to the manager of the South Camden
854 Water & Sewer District within 30 days following notice of final decision to assess a
855 civil penalty. Unless such demand is made within the time specified in this subsection,
856 the decision on the civil penalty assessment shall be final and binding.

857

858 (2) Appeal hearings. Any decision of the South Camden Water & Sewer District
859 hearing officer made as a result of an adjudicatory hearing held under subsection (g)(1)
860 of this section may be appealed by any party to the South Camden Water & Sewer
861 District's Board of Directors upon filing a written demand within ten days of receipt of
862 notice of the decision. Hearings held under this section shall be conducted in
863 accordance with the South Camden Water & Sewer District's Board of Directors
864 hearing procedures. Failure to make written demand within the time specified in this
865 subsection shall bar further appeal. The South Camden Water & Sewer District Board
866 of Directors shall make a decision on the appeal within 90 days of the date the appeal
867 was filed and shall transmit a written copy of its decision by registered or certified
868 mail.

869

870 (3) Official record. When a final decision is issued under subsection (g)(2) of this
871 section, the South Camden Water & Sewer District Board of Directors shall prepare an
872 official record of the case that includes:

873

874 a. All notices, motions, and other like pleadings;

875

876 b. A copy of all documentary evidence introduced;

877

878 c. A certified transcript of all testimony taken, if testimony is transcribed. If
879 testimony is taken and not transcribed, then a narrative summary of any testimony
880 taken;

881

882 d. A copy of the final decision of the South Camden Water & Sewer District.

883

884 (4) Judicial review. Any customer against whom a final decision of the South
885 Camden Water & Sewer District is entered, pursuant to the hearing procedure under
886 subsection (g)(2) of this section, may appeal the order or decision by filing a written
887 petition for judicial review within 30 days after receipt of notice by certified mail of the
888 order or decision to the general court of justice of the county or of the county where the
889 order or decision is effective, along with a copy to the South Camden Water & Sewer
890 District. Within 30 days after receipt of the copy of the petition of judicial review, the
891 South Camden Water & Sewer District shall transmit to the reviewing court the original
892 or a certified copy of the official record, as outlined in subsection (g)(3) of this section.

893

894 § 50.14 SEVERABILITY

895

896 (A) If any section, subsection, sentence, or clause of this article is adjudged to be
897 unconstitutional or otherwise invalid, such adjudication shall not effect the validity of

898 the remaining portion of this article, It is hereby declared that this article would have
899 been passed, and each section, sentence, or clause thereof, irrespective of the fact that
900 any one or more sections, subsections, sentences, or clauses might be adjudged to be
901 unconstitutional, for any other reason invalid.

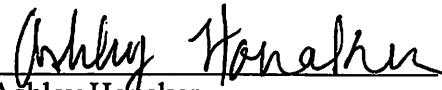
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903 Adopted by the Board of Commissioners for the County of Camden this 4 day of April
904 , 2011.

County of Camden



Sandra Duckwall, Chairman
Board of Commissioners

913 ATTEST:

914 
915 _____
916 Ashley Honaker
917 Clerk to the Board

918
919
920