

COLORADO Department of Public Health & Environment

Dedicated to protecting and improving the health and environment of the people of Colorado

То:	Members of the State Board of Health
From:	Cary E. Ruble, Regulation Development and Enforcement Coordinator, Division of Environmental Health and Sustainability
Through:	Jeff Lawrence, Director Division of Environmental Health and Sustainability (92)
Date:	December 17, 2014
Subject:	Request for Rulemaking Hearing Proposed Amendments to 6 CCR 1010-6, Rules and Regulations Governing Schools in the State of Colorado, with a request for the rulemaking hearing to occur in December 2014

The Division of Environmental Health and Sustainability ("Division") is proposing revisions throughout 6 CCR 1010-6, *Rules and Regulations Governing Schools in the State of Colorado*, and is requesting that the Board of Health schedule a rulemaking hearing for adoption of the proposed amendments at the February 18, 2015, Board of Health Meeting.

In compliance with Executive Order D 2012-002 and the State Administrative Procedure Act (24-4-103.3, C.R.S.), the Department has conducted a mandatory review of the *Rules and Regulations Governing Schools in the State of Colorado*. Based on this review, it was determined that amendments to 6 CCR 1010-6 will be proposed since 6 CCR 1010-6 was last amended by the Board of Health in 2005.

The proposed revisions will keep Colorado schools consistent with current health and safety standards and nationally recognized science-based recommendations. Through a lengthy review process, the Division met with Stakeholders on four occasions throughout October, November and December 2014, to discuss proposed amendments to the regulations. The stakeholder group included representatives from local public health agencies, other CDPHE divisions, school associations, district and school representatives, and other government entities, is proposing revisions to the rule to provide clarity, transparency, consistency in application, and to more closely align with state and federal standards. Of the proposed revisions, the following amendments were identified as more consequential by stakeholders:

- Codifying existing practices to provide transparency, clarity, and consistency in application by schools and the Division (e.g., current versions of building codes, plumbing codes, health and safety requirements, all hazards and chemical hygiene plan preparation, sanitation and disinfection practices, etc.);
- Introduction of a self-certification checklist as part of the school inspection program. The self-certification program will reduce the regulatory burden on schools and increase regulatory compliance by more actively engaging school personnel in maintaining a safe and healthy school environment. Also, the implementation of the self-certification and the associated Division audit program will focus Department resources on schools with greater compliance assistance needs;
- Establishing the final compliance date of January 1, 2016, for all schools to develop a chemical hygiene plan;

- Transition from the Colorado-specific prohibited and restricted chemical lists to national standards. This transition addresses historically controversial and resourceconsumptive disagreements over appropriately listed chemicals. Proposed revisions incorporate the lists contained in the School Chemistry Laboratory Safety Guide, developed by the National Institute for Occupational Safety and Health (NIOSH). The NIOSH lists were developed with the assistance of the American Chemical Society, the American Federation of Teachers/AFL-CIO, USEPA, and the National Science Teachers Association, among others;
 - In order to allow schools sufficient time to transition chemical inventories, the regulations will incorporate a final compliance date of January 1, 2017, for this requirement which allow schools to utilize inventories of chemicals allowed under the current regulations;
 - Adequate time to coordinate appropriate disposal, and;
 - The proposed revisions also include a chemical-use variance process to ensure that schools are provided the ability to utilize listed chemicals in advanced chemistry classes. Variances will expire upon a change of circumstances from those supporting the variance, for example changing the person responsible for assuring the safe management of the chemical, or the alleviation of the initial hardship created by limiting the availability of the chemical;
- Implementation of a public notification requirement as a non-punitive means to encourage compliance in cases involving recalcitrant schools with repetitive violations; and,
- Incorporation of a requirement that all schools contract with a registered nurse to provide for student health care and consultation, including supervision of unlicensed school staff to administer medication and carry out medical orders for students with special health care needs.

Less substantive proposed revisions include:

- Standardizing the format of the regulation to comply with the Colorado Secretary of State CCR style template;
- Updating definitions, citations, references, and administrative directives, and modernizing essential regulation language by eliminating arbitrary and/or redundant requirements;
- Increasing the clarity, consistency, effectiveness, specificity, and accuracy of regulatory language by incorporating standardized language from similar rules and/or from other rules that apply to schools; and
- > Clarifying requirements based on implementation of the current rule.

To date, the Division has participated in six stakeholder meetings. These include two formative discussions with representatives from the Colorado School District Environmental Professionals (COSDEP) and the Colorado Chemistry Teachers Association (CCTA), and four formal regulation revision stakeholder meetings held on October 3, October 24, November 21, and December 12, 2014. Stakeholder meetings have resulted in consensus on the proposed revisions and have identified opportunities for the development of technical guidance to assist with implementation of the revised regulations.

STATEMENT OF BASIS AND PURPOSE AND SPECIFIC STATUTORY AUTHORITY for Amendments to

6 CCR 1010-6, Rules and Regulations Governing Schools in the State of Colorado

Basis and Purpose.

The purpose of the Board of Health's *Rules and Regulations Governing Schools in the State of Colorado*, 6 CCR 1010-6, is to establish provisions regulating the minimum requirements necessary to safeguard the health and safety of school occupants.

The amendments to 6 CCR 1010-6, are being implemented pursuant to the statutory authority granted the Board of Health in Sections 25-1-108(1)(c)(I), 25-1.5-101(1)(a), (h), (k), and (l), 25-1.5-102(1)(a) and (d), C.R.S. The Division of Environmental Health and Sustainability ("Division") is directed by Executive Order D 2012-002 and the State Administrative Procedure Act (24-4-103.3, C.R.S.) to review all regulations at least once every seven years to ensure that they are efficient, effective and essential. The school regulations were last amended in 2005.

The proposed revisions will keep Colorado schools consistent with current health and safety standards and science-based recommendations. Through a lengthy review process, the Division, in collaboration with a stakeholder group that included representatives from local public health agencies, other CDPHE divisions, school associations, district and school representatives, and other government entities, is proposing revisions to the rule to provide clarity and more closely align with state and federal standards.

Of the proposed revisions, and based on stakeholder feedback received by the Division, the following amendments were identified as more consequential to stakeholders:

- Codifying existing practices (e.g., current versions of building codes, plumbing codes, health and safety requirements, all hazards and chemical hygiene plan preparation, sanitation and disinfection practices, etc.). This provides transparency, clarity, and consistency in application by schools and the Division;
- Use of a self-certification checklist as part of the school inspection program. The selfcertification program will increase regulatory compliance by more actively engaging school personnel in maintaining a safe and healthy school environment;
- Establishing the final compliance date of January 1, 2016, for all schools to develop a chemical hygiene plan;
- Transition from the historically controversial Colorado-specific prohibited and restricted chemical lists to national standards. Proposed revisions incorporate the lists contained in the School Chemistry Laboratory Safety Guide, developed by the National Institute for Occupational Safety and Health (NIOSH), with the assistance of the American Chemical Society, the American Federation of Teachers/AFL-CIO, and the National Science Teachers Association, among others.
 - The regulations will incorporate a final compliance date of January 1, 2017, for the NIOSH lists. This requirement will allow schools to exhaust inventories of chemicals allowed under the current regulations; and
 - The proposed revisions include a chemical-use variance process to ensure that schools are provided the ability to use listed chemicals in advanced chemistry classes under proper management. Variances will expire upon a change of circumstances, such as changing the person responsible for assuring the safe management of the chemical or the alleviation of the initial hardship created by the prohibition;

- Implementation of a public notification requirement as a non-punitive means to achieve compliance in cases involving recalcitrant schools with repetitive violations; and
- Incorporation of the requirement that all schools contract with a registered nurse to provide for student health care and consultation.

Proposed revisions also include standardizing the format of the regulation to comply with the Colorado Secretary of State CCR style template. Other, less substantive proposed revisions address:

- Increasing the consistency, effectiveness, and accuracy of regulatory language by incorporating standardized language from similar rules and/or from other rules that apply to schools;
- Updating definitions, citations, and references to provide transparency, clarity, and consistency in application;
- Modernizing essential regulation language by eliminating arbitrary and/or redundant requirements;
- Clarifying previously existing requirements based on implementation of the current rule.

To date, the Division has participated in six stakeholder meetings. These include two formative discussions with representatives from the Colorado School District Environmental Professionals (COSDEP) and the Colorado Chemistry Teachers Association (CCTA), and four formal regulation revision stakeholder meetings held on October 3, October 24, November 21, and December 12, 2014.

Stakeholder meetings have resulted in consensus on the proposed revisions and have identified opportunities for the development of technical guidance to assist with implementation of the revised regulations. The Division is requesting that the Board of Health schedule a rulemaking hearing for adoption of the proposed revision at the February 18, 2015, Board of Health Meeting.

Specific Statutory Authority.

These rules are promulgated pursuant to the following statutes: Sections 25-1-108(1)(c)(I), 25-1.5-101(1)(a), (h), (k), and (l), 25-1.5-102(1)(a) and (d), C.R.S.

SUPPLEMENTAL QUESTIONS

Is this rulemaking due to a change in state statute?

Yes, the bill number is _____; rules are ___ authorized ___ required. X No

Is this rulemaking due to a federal statutory or regulatory change?

Does this rule incorporate materials by reference?

Does this rule create or modify fines or fees?

REGULATORY ANALYSIS for Amendments to

6 CCR 1010-6, Rules and Regulations Governing Schools in the State of Colorado

1. A description of the classes of persons who will be affected by the proposed rule, including classes that will bear the costs of the proposed rule and classes that will benefit from the proposed rule.

School administrators and representatives, students, parents of enrolled students, visitors to the schools, CDPHE, and local public health agencies are all potentially affected and will benefit from the proposed changes to the regulations.

Additional costs will not be incurred by the Department or by families with children enrolled in school. Many of the proposed revisions are codifications of current practices. For example, building codes, plumbing codes, health and safety requirements, all hazards and chemical hygiene plan preparation, sanitation and disinfection practices, etc., are now codified in regulation to reflect current inspectional practices, thereby, providing greater consistency of implementation.

Although negligible relative to the health and safety benefit, potential costs may be incurred by schools gaining compliance with specific new requirements or additions to the regulation (e.g., installation and maintenance of carbon monoxide (CO) detectors, disposal of prohibited chemicals, contracting with a registered nurse, etc).

Regarding prohibited chemical disposal, the Department recognizes that schools will require ample time to achieve compliance with the new chemical lists. To accommodate this, a compliance date of January 1, 2017 has been incorporated in order to allow school sufficient time to exhaust or dispose of their residual volumes of prohibited chemicals.

2. To the extent practicable, a description of the probable quantitative and qualitative impact of the proposed rule, economic or otherwise, upon affected classes of persons.

By providing increased clarity, consistency in application, specificity, and accuracy in regulatory language, the proposed rule will qualitatively allow schools to more effectively and efficiently comply with regulation. Additionally, the proposed rule revisions provide for better alignment with nationally recognized health and safety standards and practices; thereby, providing a modern and appropriate level of protection for Colorado students and educators.

The proposed regulation includes revised prohibited and restricted chemical lists, which have historically have proven controversial. The Department recognized the potential regulatory and economic burden placed on stakeholders as a result of the chemical list rule revisions, and performed an exhaustive comparative evaluation of the current chemical lists versus lists from other states and organizations across the country. For example, the existing prohibited chemical list contains 209 chemicals, of which, 164 are unique to Colorado and are present on no other state or national list evaluated by the Department. In light of these inconsistencies, and in conjunction with on-going concerns expressed by stakeholders regarding the restrictive and sometimes arbitrary nature of the current list, the Department elected to propose an entirely new prohibited (and restricted) chemical list developed by the National Institute for Occupational Safety and Health (NIOSH). While the revised list contains 59 new prohibited chemicals, the overall number of prohibited chemicals is reduced from 209 to 87. A similar reduction was realized on the restricted chemical list (from 252 to 58).

The significant reduction in the number of prohibited chemicals, along with the delayed compliance date, and the chemical-use variance process, will minimize or eliminate the potential regulatory and economic burden on stakeholders. Additionally, the use of prohibited and restricted chemical lists vetted on a national level will facilitate more efficient and sustainable chemical management while continuing to assure safety in high school chemistry laboratories in Colorado. For those instances where potentially harmful chemicals remain in inventories which are not on the NIOSH lists, stakeholder input has identified opportunities for the development of technical guidance to maintain laboratory safety.

3. The probable costs to the agency and to any other agency of the implementation and enforcement of the proposed rule and any anticipated effect on state revenues.

The implementation costs of the revised regulation to CDPHE and Division of Environmental Health and Sustainability are negligible. Although the Division may incur an increased level of effort associated with developing guidance, updating pertinent documents, and training of local health agencies and schools, no appreciable increase in Departmental costs have been identified. Also, since no increase in inspection time is anticipated, the proposed revisions to the regulation will not increase the overall costs to conduct inspections to local health agencies or to CDPHE. Conversely, it is anticipated that implementation of the self-certification process could more efficiently focus the Division's on-site inspection time and increase staff's availability to provide compliance assistance.

4. A comparison of the probable costs and benefits of the proposed rule to the probable costs and benefits of inaction.

At minimal or no cost for many schools, the benefits of the proposed revision to regulation include a greater degree of health and safety protection for students, faculty, and occupants of Colorado schools. The substantive proposed revisions (i.e. chemical lists, addition of a CO detector requirement, etc.) form the foundation for a more robust, effective, and beneficial regulation. Furthermore, it is anticipated that the implementation of self-certification by schools, when fully established, will result in a reduction in on-site inspection time for both the Department and the schools, while achieving an increase in the school's overall compliance with regulation.

The costs of inaction are minimal, and there are no benefits from inaction. Based on the high level of stakeholder engagement, and the depth and breadth of stakeholderproposed revisions, inaction would be a disservice to the regulated community and would not comply with Department policy to review all regulations assure their relevance. The school regulations were last amended in 2005.

5. A determination of whether there are less costly methods or less intrusive methods for achieving the purpose of the proposed rule.

There are no less costly or less intrusive methods for achieving the purpose of the revised regulation. The amendments are necessary to provide schools and the regulated community at large with sufficiently detailed, accurate and updated rules that are consistent with nationally recognized standards.

6. Alternative Rules or Alternatives to Rulemaking Considered and Why Rejected.

The school regulations were last revised in 2005. Due to Department policy regarding the periodic updating of all state regulation and the need for extensive revision, alternatives to rulemaking were not considered.

7. To the extent practicable, a quantification of the data used in the analysis; the analysis must take into account both short-term and long-term consequences.

The school regulation revision would positively impact all ~1,800 schools throughout the state. Considering all public and charter schools, the increase in health and safety provisions afforded by the proposed revisions would impact a total population of approximately 832,000 students and nearly 50,000 educators attending and teaching kindergarten through 12th grade in schools on a given day in Colorado. During evaluation of proposed revisions, the following sources of information were reviewed:

- Title 15, United States Code (USC) Section 8001 et. seq. (Virginia Graeme Baker Pool and Spa Safety Act)
- Environmental Protection Agency's, *Radon Measurements in Schools*, Revised Edition July 1993 (EPA Documents #402-R-92-014)
- 29 CFR 1910.107 and 1910.1200(g)
- U.S. Consumer Product Safety Commission's Publication No. 5015, Art and Craft Safety Guide
- American Conference of Governmental Industrial Hygienists 2014 Threshold Limit Values and Biological Exposures Indices
- 2006 International Building Code
- 2009 International Plumbing Code
- 2011 National Fire Protection Association Code 45 Fire Protection for Laboratories Using Chemicals
- 2012 National Fire Protection Association Code 30 Flammable and Combustible Liquids Code
- 2013 American Society of Heating, Refrigeration and Air Conditioning Engineers Standard 62.1-2013, Ventilation for Acceptable Indoor Air Quality
- 2014 National Electrical Code
- American National Standards Institute Z49.1-2014 Standard- Safety in Welding, Cutting, and Allied Processes
- American National Standards Institute Z87.1-2010 Standard for Occupational and Educational Personal Eye and Face Protection Devices
- American National Standards Institute Z358.1-2009 Standard
- UL Standards 217 and 2034
- Colorado Revised Statute (C.R.S.)
 - Article 4 of Title 24
 - Section 32-1-1006(1)(a)(I)
 - Section 25-1.5-2
 - Section 25-1.5-203
 - Section 25-3-101
 - o Section 25-4-1605
 - Section 25-4-1607(9)(a)(l)
 - Sections 25-5-501 and 508, et. seq. (Colorado Hazardous Substance Act)
 - Sections 26-6-102(1.5), (2.5)(a), (5), (5.1), (8), (9), (10)(a)
 - Sections 25-8-702(1) and/or 25-10-105
- Colorado Air Quality Control Commission Regulation No. 8

- 2013 Colorado Retail Food Establishment Rules and Regulations, 6 CCR 1010-2
- 6 CCR 1007-3 Part 261 of the Colorado Hazardous Waste Regulations
- Rules and Regulations Pertaining to Radiation Control, 6 CCR 1007-1
- 6 CCR 1009-2, Rules Pertaining to the Infant Immunization Program, the Vaccines for Children Program, and the Immunization of Students Attending School
- Colorado Primary Drinking Water Regulations 5 CCR § 1002-11
- Colorado Department of Public Health and Environment Swimming Pool and Mineral Bath Regulations, 5 CCR 1003-5
- 6 CCR 1007-2, Part 1, *Regulations Pertaining to Solid Waste Sites and Facilities* and 6 CCR 1007-3, Parts 260-268, and Parts 99 and 100

During evaluation of prohibited and restricted chemical lists, the following resources were reviewed:

- Prohibited chemical list
 - American Chemical Society restricted chemical list
 - NIOSH prohibited chemical list
 - NIOSH restricted chemical list
 - Rhode Island prohibited chemical list
 - Washington prohibited chemical list
 - Washington restricted chemical list
- Restricted chemical list 252 items
 - o American Chemical Society restricted chemical list
 - NIOSH prohibited chemical list
 - NIOSH restricted chemical list
 - Rhode Island prohibited chemical list
 - Washington prohibited chemical list
 - Washington restricted chemical list

STAKEHOLDER COMMENTS for Amendments to

6 CCR 1010-6, Rules and Regulations Governing Schools in the State of Colorado

The following individuals and/or entities were included in the development of these proposed rules:

- School Program Stakeholders
 - Alice Huyler, Colorado Safety Resources Center, Department of Public Safety
 - Mary Bartholomew, Smokey Hill High School
 - Marilyn Kemp, Eaglecrest High School
 - Jay Mead, Pueblo Centennial High School
 - Devon Burke, Pueblo County High School
 - Corey Brueckner, Heritage High School
 - o Elnore Grow
 - Jeanette Carpenter
 - Marti Maguire
 - o Dr. Susan M. Schelble, Metropolitan State University of Denver
 - Laura Duncan, Boulder Valley School District
 - Don Cameron, Lakewood High School
 - Brian Hatak, Arapahoe High School
 - Linda Cummings, North High School
 - Kimberly Sanborn Brogan, Jefferson County Public Schools
 - Rita Davis, Aurora Public Schools
 - Karola Hanks, Durango Fire and Rescue
 - Kimberly Howard, Aurora Public Schools
 - Jim Austin, Montrose County Health and Human Services
 - Jon Weir, Colorado Division of Fire Prevention and Control
 - Lynnea Rappold, Alamosa County Public Health Department
 - o Charles Pope, Mesa County Valley School District 51
 - Cheri Giammo
 - CJ Oliver, Aspen Environmental Health Department
 - Steve Smith, Animas High School
 - Lane Drager, Boulder County Public Health Department
 - Randy Walters, Polaris Expeditionary Learning School
 - Dan Collins, Broomfield Health & Human Services Department
 - Victor Crocco, Chaffee Environmental Health Department
 - Cindy Dicken, Clear Creek County Public and Environmental Health Department
 - Ken Nordstrom, Delta County Health Department
 - Bob McDonald, Denver Department of Environmental Health
 - Ray Merry, Eagle County Health Department
 - Jim Goodwin, El Paso County Public Health
 - Gary Hartzell, Elbert County Public Health Department
 - Sid Darden, Fremont County Environmental Health Services
 - Yvonne Long, Garfield County Public Health
 - Carol Lynn Scheller, Hinsdale County Public Health
 - Dave Volkel, Jefferson County Public Health
 - Kelly Alverez, Kit Carson County Health & Human Services
 - Jackie Littlepage, Lake County Public Health Agency
 - Jim Devore, Larimer County Department of Health & Environment

- School Program Stakeholders (continued)
 - o John Martinez, Las Animas-Huerfano County District Health Department
 - Monique Mull, Mesa County Health Department
 - o Melissa Mathews, Montezuma County Health Department
 - Jim Austin, Montrose County Health & Human Services
 - o Carmen Vandenbardk, Northeast Colorado Health Department
 - Rick Ritter, Otero County Health Department
 - Sheila Cross, Park County Health
 - o Bryan Daugherty, Pitkin County Environmental Health & Natural Resources
 - Seth Odette, Prowers County Public Health
 - Vicki Carlton, Pueblo City-County Health Department
 - o Jeremy Simmons, Rio Blanco County Nursing Service, Rangely Main Office
 - o Heather Savalox, Routt County Department of Environmental Health
 - o Marla Luckey, San Juan Basin Health Department
 - o Chris Smith, San Miguel County Environmental Health Department
 - o Dan Hendershott, Summit County Environmental Health Department
 - Aaron Doussett, Teller County Environmental Health Department
 - o Brian Hlavacek, Tri-County Health Department, Aurora Office
 - o Deb Adamson, Weld County Department of Public Health & Environment
 - Steve Braun, Colorado Springs School District 11
 - o Roger Felch
 - Elizabeth Greenman, Byers School District
 - o Marian Knowles, Denver Jewish Day School
 - Justin Laboe, Adams 12 Five Star Schools
 - Karen Minteer, Jeffco Public Schools
 - Bridget Molloy
 - Daniel Moors, Colorado Springs School District 11
 - Jyoti More, Denver Public Schools
 - Daniel Price, Jeffco Public Schools
 - Jon Russell, Addenbrooke Classical Academy
 - Christina Welsby, Addenbrooke Classical Academy
 - o Julie E. Furstenau, Ph.D., Thomas B. Doherty High School
 - Heather Schambach, Lakewood High School
 - o Robert Cassady, Standley Lake High School
 - Tyler Nash, Coronado High School
 - Larry Welshon, Alpine Valley School
 - John Fennell, Eagle Crest High School
 - Lisa Johnson, Northridge High School
 - Kaysie Walter, Otero County Health Department
- CDPHE staff
 - Jeff Lawrence, Division of Environmental Health and Sustainability, Director
 - Sean Scott, Division of Environmental Health and Sustainability, Deputy Director
 - Therese Pilonetti, Division of Environmental Health and Sustainability, Delegated Programs Unit Manager
 - Cary Ruble, Regulation Development and Enforcement Coordinator
 - Gregory McConnell, Division of Environmental Health and Sustainability, Environmental Protection Specialist (EPS)
 - Erika Atherly, Division of Environmental Health and Sustainability, EPS
 - Kara Stone, Division of Environmental Health and Sustainability, EPS
 - \circ Matt Brandt, Division of Environmental Health and Sustainability, EPS

- Zack Lustgarten, Division of Environmental Health and Sustainability, EPS
- Marion O'Connor, Hazardous Materials and Waste Management Division
- Tom Simmons, Disease Control and Environmental Epidemiology Division
- Cathy White, Prevention Services Division
- Derek Boer, Hazardous Materials and Waste Management Division
- Nisha Alden, Disease Control and Environmental Epidemiology Division
- Alisha Cronquist, Disease Control and Environmental Epidemiology Division
- Nicole Comstock, Disease Control and Environmental Epidemiology Division
- Jennifer House, Disease Control and Environmental Epidemiology Division
- Jamie Damico, Disease Control and Environmental Epidemiology Division
- Lynnsay Trefren, Disease Control and Environmental Epidemiology Division
- Christine Hoefler, Air Pollution Control Division

The following individuals and/or entities were notified that this rule-making was proposed for consideration by the Board of Health:

Along with the above individuals and entities, the Division notified interested parties via the Division's website and sent an email notice to the Division's stakeholder list.

<u>On or before the date of publication of the notice in the Colorado Register, the Division</u> sent notice to persons and/or groups considered by the division to be interested parties to the proposed rule-making, and those who have requested notification/ information from the division regarding the proposed rule-making? X Yes No. The Division provided notice beginning on September 3, 2014.

Summarize Major Factual and Policy Issues Encountered and the Stakeholder Feedback Received. If there is a lack of consensus regarding the proposed rule, please also identify the Department's efforts to address stakeholder feedback or why the Department was unable to accommodate the request.

The Division has been tracking opportunities to improve and modernize this regulation since its last amendment in 2005. Beginning in 2014, the division participated in preliminary discussions with representatives from Colorado School District Environmental Professionals (COSDEP) and the Colorado Chemistry Teachers Association (CCTA) to discuss opportunities to improve the regulation through revision. Formal regulation revision stakeholder meetings were held on October 3, 2014, October 24, November 21, and December 12, 2014, and both internal and external stakeholder feedback was documented, tracked, and evaluated for possible inclusion in the revised regulation. To the extent the rule revision modifies the mandate to local government (i.e. school districts, local public health agencies) the rule revision provides schools more flexibility while maintaining nationally recognized public and environmental health standards. The standards have been carefully balanced to ensure schools can be successful within existing resources. Though the standards have changed, the net impact is to create efficiency for schools. To date the Division has received no comments that the rule contains an unfunded mandate to local governments and the Division is still working with the community.

The majority of stakeholder comments have been accepted as proposed revisions and incorporated into the amended regulation, while others have been rejected because they are either out of scope or conflict with the general intent and/or authority of the regulations. Stakeholder meetings to date have resulted in consensus on the proposed revisions and have identified opportunities for the development of technical guidance to assist with implementation of the revised regulations.

Please identify health equity and environmental justice (HEEJ) impacts. Does this proposal impact Coloradoans equally or equitably? Does this proposal provide an opportunity to advance HEEJ? Are there other factors that influenced these rules?

The proposed revisions will continue to promote healthy and safe schools for Colorado students, faculty and other occupants regardless of race, color, national origin, or income. The proposed revisions to the prohibited and restricted chemical lists (fewer chemicals on these lists) provide increased flexibility for schools and educators and as such create an opportunity for charter schools and schools wanting to enhance their science programs. The proposed changes allow these schools to obtain, maintain and dispose of chemicals in a manner that minimizes burdens on the school or school district. Costs to manage and dispose of chemicals formerly on the prohibited chemical list will be reduced, lessening the burden on economically disadvantaged schools. The proposed requirement for schools to contract with a registered nurse to provide oversight for student health care, administer medication and carry out medical orders for students with special health care needs, assures that these services are equitably available to all students in Colorado.

COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT

Division of Environmental Health and Sustainability

<u>6 CCR 1010-6</u>

RULES AND REGULATIONS GOVERNING SCHOOLS IN THE STATE OF COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT

Division of Environmental Health & Sustainability 6CCR 1010-6 STATE BOARD OF HEALTH RULES AND REGULATIONS GOVERNING SCHOOLS IN THE STATE OF COLORADO

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1	COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT
2 3	Division of Environmental Health and Sustainability
4	
5	<u>6 CCR 1010-6</u>
6 7	RULES AND REGULATIONS GOVERNING SCHOOLS
8	IN THE STATE OF COLORADO
9	DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT
10	Division of Environmental Health & Sustainability
11 12	6 CCR 1010 6 STATE BOARD OF HEALTH
12 13	STATE BOARD OF HEALTH RULES AND REGULATIONS GOVERNING SCHOOLS IN THE STATE OF
13 14	COLORADO
15	
16	
17	<u>Chapter One -</u> General Provisions
18 19	
20	Administration
21	
22 23	<u>1-1016.1 Authority</u>
23	This regulation is adopted pursuant to the authority in Sections 25-1-108(1)(c)(I), 25-1.5-
25	101(1)(a),(h), (k), and (l), and 25-1.5-102(1)(a) and (d), Colorado Revised Statute (C.R.S.),
26	and is consistent with the requirements of the State Administrative Procedures Act, Section
27 28	<u>24-4-101, et seq., C.R.S.</u>
28 29	6.2 Scope and Purpose
30	
31	<u>A. <u>Purpose</u>: The purpose of these "Rules and Regulations" is to provide This regulation</u>
32 33	establishes provisions governing:
34	<u>1.</u> <u>minimum Minimum sanitation requirements for the operation and maintenance</u>
35	of schools; and
36	
37 38	2. <u>minimum Minimum</u> standards for exposure to toxic materials and environmental conditions in order to safeguard the health of the school occupants and the
38 39	general public; and
40	
41	3. Investigation, control, abatement and elimination of sources causing epidemic
42 43	and communicable diseases affecting school occupants and public health.
43 44	B. This regulation does not apply to:
45	
46	1. Structures or facilities used by a religious, fraternal, political or social
47 49	organization exclusively for worship, religious instructional or entertainment
48 49	purposes pertaining to that organization;
./	

50		2.	Health facilities licensed by the Colorado Department of Public Health and
51			Environment under provisions of Section 25-3-101, C.R.S.; and
52			
53		3.	Child care facilities licensed by the Colorado Department of Human Services
54			<u>under provisions of Sections 26-6-102(1.5), (2.5)(a), (5), (5.1), (8), (9), (10)(a),</u>
55			<u>C.R.S.</u>
56			
57			
58	<u>6.3</u>	<u>Applic</u>	ation:Applicability
59			
60	A.	These	<u>"Rules and Regulations" shall applyThe provisions of this section shall be</u>
61		<u>applica</u>	able to all schools, kindergarten through grade twelve, in theState of Colorado.
62	<u>A.</u>		
63			
64		1.	Schools in operation prior to the effective date of these regulations, which
65			would require <u>capitol capital</u> expenditures to fully meet all of the design,
66			construction and equipment requirements of these regulations, may be deemed
67			acceptable if in good repair and capable of being maintained in a sanitary
68			condition and pose no hazard to the health of the school occupants
69		-	
70		2.	Any school shall have a right to challenge any rule that they feel has been too
71			rigidly applied. All challenges must be submitted to the Department in writing,
72	I		stating the rule being challenged and the reason for the challenge. The
73			Department shall hear the challenge and make recommendations
74			determinations pursuant to the statute.
75 76		3.	These regulations shall not limit the new are and duties of local governments to
76 77		э.	These regulations shall not limit the powers and duties of local governments to issue such orders and adopt regulations as stringent as or more stringent than
77 78			the provisions contained herein; as may be necessary for public health.
78 79	l		the provisions contained herein, as may be necessary for public heatth.
79 80		1-103	The Department recommends that all schools with laboratories, and/or
81			ng in industrial arts or hazardous vocational activities should be inspected a
82			um of once per year. All other schools should be inspected a minimum of once
83			ree years. If a school is provided with a non-community water system, as
84			d in the Colorado Primary Drinking Water Regulations, 5 CCR § 1003-1 the water
85			system should be inspected at least once annually and evaluated or assessed at
86			inspectional opportunity of the school or other regulated activities.
87			
88		School	food service inspections shall be conducted at the frequency established in the
89		<u>Colora</u>	do Retail Food Establishment Rules and Regulations, 6 CCR § 1010-2.
90			
91		1-104	All public school district facilities that are constructed or remodeled
92			ubmit construction plans to the Colorado Department of Labor and Employment,
93		Divisio	n of Labor, Public Safety Section.
94	<u>B.</u>		and specifications shall be submitted prior to construction or extensive remodel
95			required by the Department for the installation of sanitary facilities in existing
96			s being remodeled to increase the occupant load. Submission to the
97			ment does not remove the requirements of the Colorado Department of Public
98			, Division of Fire Safety or local building authorities regarding submissions of
99		<u>plans a</u>	and specifications.
100			

101	<u>в.с.</u>	Swim	ming pools shall be constructed, operated, and maintained in accordance with		
102			the Colorado Department of Public Health and Environment Swimming Pool and		
103			Mineral Bath Regulations, 5 CCR 1003-5, and Title 15, United States Code (USC),		
104			on 8001 et seq.		
105					
106	<u>6.4</u>	_DEFIN	HTIONS Definitions		
107	4 4 9 5				
108	1-105		<u>Definitions</u> - For the purpose of these rules and regulations:		
109			A second s		
110		1.	American National Standards Institute (ANSI) means an accreditation agency		
111			that certifies adherence to particular standards.		
112		2	Approved Shall means accortable to the Colorade Department of		
113		<u>∠.</u>	<u>a. Approved</u> - Shall-means acceptable to the Colorado Department of Public Health and Environment or its authorized agents or employees, based on		
114			determination as to conformance with appropriate standards and good public		
115			health practices.		
116 117			Health practices.		
117					
118		3.	Bacteria means organisms with a cell wall that can survive inside and outside of		
120		<u>J.</u>	the body.		
120			the body.		
121		4.	Campus means a fixed location that includes the grounds and the academic,		
122			administration, and support structures and facilities.		
124			daministration, and support of detailed and racificed		
125		5.	Carbon Monoxide Detector means a device that detects carbon monoxide and		
126			that: (a) produces a distinct, audible alarm; (b) is listed by a nationally		
127			recognized, independent product-safety testing and certification laboratory to		
128			conform to the standards for carbon monoxide alarms issued by such laboratory		
129			or any successor standards; (c) plugs into a school's electrical outlet and has a		
130			battery backup, is wired into a school's electrical system and has a battery		
131			back-up, or is connected to an electrical system via an electrical panel; and (d)		
132			may be combined with a smoke detecting device if the combined device		
133			complies with both Underwriters Laboratories, Inc. (UL) Standards 217 and		
134			2034 regarding both smoke detecting devices and carbon monoxide alarms and		
135			that the combined unit produces an alarm, or an alarm and voice signal, in a		
136			manner that clearly differentiates between the two hazards.		
137					
138		<u>6.</u>	Chemical Hygiene Plan means a written program that promotes the safe		
139			management of chemicals for students, faculty and staff and promotes a		
140			culture of safety within the school. The plan is comprised of procedures for		
141			general laboratory safety, chemical management (including procurement,		
142			storage, handling, and disposal), and spill response. The plan also includes		
143			procedures for the operation and testing of laboratory chemical hoods and		
144			other emergency and safety equipment.		
145		_			
146		<u>7.</u>	Chemical Inventory means a listing of all hazardous chemicals, compounds, and		
147			substances present in a school and must include the name and the original		
148			amount of the chemical and the date the material entered the school.		
149			Prohibited and restricted chemicals should be designated as such in the		
150			inventory. The chemical inventory should include all hazardous chemicals, compounds, products and wastes that are used or generated in the school's		
151			compounds, products and wastes that are used of generated in the schools		

152		maintenance, custodial, and lawn care facilities, science laboratories,
153		vocational and industrial arts curriculum, classrooms and administrative office.
154		Building materials are excluded from this requirement.
155		
156	1. 8.	Chemical Waste means any chemical discarded or intended to be discarded.
157		When chemicals are spent, expired, no longer used, or needed they become
158		waste. This can also include those chemicals that are partially or wholly
159		crystallized, solidified or otherwise changed physically, whose containers are
160		damaged or leaking, and those chemicals listed as prohibited in Appendix A.
161		
162	2. 9.	b. Classroom - Any means any room used for instructional purposes by
163		students and/or staff on a routine basis.
164		<u>statents and/or starr on a roatine basis</u> .
165	10.	c. Clean - means to be free of dust and debris or to remove dirt and debris
165	<u>10.</u>	by vacuuming or scrubbing and washing with soap and water Free from dirt and
167		impurities.
168		imparties.
169	11.	Contamination means the presence of infectious microorganisms or chemicals
109	<u></u>	at levels toxic to human health in or on the body, environmental surfaces
170		
		including but not limited to table tops, chairs, desks, and laboratory working
172		areas, articles of clothing, and/or in food or water.
173	2 4 2	Critical Violations many provisions of these rules and regulations that if
174	3. 12.	Critical Violations means provisions of these rules and regulations that, if
175		deemed in noncompliance, are more likely than other violations to contribute
176		to illness or environmental hazards that may contribute to a disease outbreak.
177		Critical violations include inappropriate clean up of high hazard bodily fluids,
178		lack of handwashing, ineffective sanitization and disinfection, ill personnel
179		preparing food, unsafe water supply or sewage disposal, pest infestation, food
180		temperature abuse and mismanagement of toxic or hazardous materials.
181		
182	<u>13.</u>	<u>d.</u> <u>Department</u> - T <u>means t</u> he Colorado Department of Public Health and
183		Environment and its authorized agents and employees.
184		
185	<u>14.</u>	Disinfect means to eliminate most or all pathogenic microorganisms, with the
186		exception of bacterial spores by using effective bactericidal heat or
187		concentration of chemicals which are registered with the U.S. Environmental
188		Protection Agency.
189		
190	<u>15.</u>	Drinking Water means water that meets criteria as specified in Section 25-1.5-
191		2, C.R.S., Colorado Primary Drinking Water Regulations. Drinking water is
192		traditionally known as "potable water". Drinking water includes the term
193		"water" except where the term used connotes that the water is not potable,
194		such as "boiler water," "mop water," "rainwater," "reclaimed water,"
195		"wastewater," and "nondrinking water".
196		
197	4. <u>16.</u>	Easily Cleanable means materials or surfaces that are smooth, durable, non-
198		absorbent, such that the soil, filth, and/or unseen contamination can be
199		effectively removed by normal cleaning methods.
200		
201	<u>17.</u>	<u>e. Extensively Remodeled</u> - <u>Means means making</u> any structural or other
202		premise s changes that result in; requires a building or construction permit being
		-

203 204		required<u>issued</u> by the Colorado Department of Labor and Employment<u>Public</u> <u>Safety</u>, Division of Labor<u>Fire Safety</u>, Public Safety Section or <u>the Local local</u>
205		Building building Authority authority(routine maintenance or repairs shall not
206		be construed as remodeling) or there is an increase or decrease of total space
207		or modification of the layout of existing space. Routine maintenance, repairs,
208		or cosmetic changes shall not be defined as extensive remodeling.
209		
210	5.<u>18.</u>	
211		eye discharge and injury or tissue discharge.
212		
213	6	<u>f.</u> <u>Guidelines</u> - Standards that are approved by the Department to provide
214		for the protection of the school occupants.
215	7	-
216	<u>19.</u>	<u>_gHazard/Hazardous</u> A- <u>means a</u> situation or condition where there is a
217		significant potential for injury, illness or death. <u>(e.g., use or exposure to</u>
218		potentially hazardous chemicals, equipment, devices, etc.).
219		
220	<u>20.</u>	Imminent Health Hazard means a substantial danger to public health or safety,
221		or a significant threat or danger to health that is considered to exist when
222		there is evidence sufficient to show that a product, practice, circumstance, or
223		event creates a situation that requires immediate correction or cessation of
224		operation to prevent illness or injury based on the nature, severity, and
225		duration of the anticipated illness or injury.
226		
227	21.	Immunization means the process by which a person becomes protected
228		(immune) against a disease.
229		
230	22.	Infection means a condition caused by the multiplication of an infectious agent
231		in the body.
232		
233	23.	Infectious means capable of causing an infection.
234		
235	<u>24.</u>	Infestation means the presence of unwanted pests such as insects, rodents,
236		bats, birds, or parasites at levels considered to pose either an economic or
237		health threat.
238		
239	<u>25.</u>	Inspection means an evaluation of the school to determine conformance with
240		these rules and regulations.
241		
242		a. Routine Inspection means an on-site evaluation by the Department of
243		the school during its normal hours of operation, with program staff in
244		attendance, to determine conformance with these rules and
245		regulations.
246		b. Self certification means a checklist of regulatory requirements
246 247		b. Self certification means a checklist of regulatory requirements completed by school personnel for the purpose of assessing compliance.
248		c. Audit means a verification of the same checklist of regulatory
249		requirements by the Department.
250		
250	8. 26.	Prohibited Chemicals means those substances with greater hazardous nature
252	0.201	than educational utility. Prohibited chemicals are those chemicals that pose

253		an inherent, immediate and potentially life threatening risk, injury or
254		impairment due to toxicity or other chemical properties to the students, staff,
255		or other occupants of the school.
256		
257	<u>27.</u>	
258		putrescible wastesmeans any garbage, trash, or other forms of solid waste.
259		
260	<u>28.</u>	Restricted Chemicals means those substances with a hazardous nature, but may
261		have potential educational utility. Restricted chemicals are listed in Appendix
262		<u>B to this regulation.</u>
263		
264	9. 29.	Safety Data Sheet (SDS) means written or printed material concerning a
265		hazardous chemical that is provided by the chemical manufacturer and
266		prepared in accordance with 29 CFR 1910.1200(g). Digital or other electronic
267		versions of SDS may be approved at the discretion of the local fire authority.
268		
269	10.<u>30</u>	<u>i. Sanitary Facilities - Tmeans t</u> oilets, urinals, lavatories, showers,
270		drinking fountains, utility sinks, and the service rooms provided for the
271		installation and use of these units.
272		
273	<u>11.31</u>	. j. Sanitation - The application of measures intended to preserve and
274		promote the public health; and the removal or neutralization of elements
275		injurious to health and safetySanitization means effective bactericidal
276		treatment by a process that provides enough accumulative heat or
277		concentration of chemicals, registered with the U.S. Environmental Protection
278		Agency, for sufficient time to reduce the bacterial count, including pathogens,
279		<u>to a safe level</u> .
280	22	b. Consisting an analysis of a support of the starial brackward
281	<u>32.</u>	<u>k.</u> <u>Sanitize</u> <u>means the application of a process or bactericidal treatment</u> ,
282		registered with the U.S. Environmental Protection Agency, for a period of time sufficient to reduce the bacterial count, including pathogens, to a safe
283 284		levelThe application of a process or bactericidal treatment for a period of time
284 285		sufficient to reduce the bacterial count, including pathogens, to a safe level.
285 286		(⁺ One method of demonstrating effective bactericidal treatment is by an
280 287		average plate count of not more than 100 colonies, or not more than 12 $\frac{1}{2}$
287		colonies per square inch of surface area examined. This is not intended as a
288 289		routine field procedure.
289	12. —	Touchie neue procedure.
291	12.	
292	13 33	<u>B. L. School</u> - Any facility (public, proprietary, parochial, denominational, or
293	· · · · ·	eleemosynary) which is maintained for educational purposes for six or more
294		persons except:
295		
296		a. <u>1.</u> Structures or facilities used by a religious, fraternal, political or
297	I	social organization exclusively for worship, religious instructional or
298		entertainment purposes pertaining to that organization.
299		a

¹ One method of demonstrating effective bactericidal treatment is by an average plate count of not more than 100 colonies, or not more than 12 ½ colonies per square inch of surface area examined. This is not intended as a routine field procedure, but only for the supplemental evaluation of sanitation procedure.

302Colorado Department of Public Health and Environment under provisions303of Section 25-3-101, Colorado Revised Statutes (C.R.S.).304c.Child care facilities licensed by the Colorado Department of Human	300		
303 of Section 25-3-101, Colorado Revised Statutes (C.R.S.). 304 c. Child care facilities licensed by the Colorado Department of Human 305 services under provisions of Sections 26-6-102(1.5), (2.5)(a), (5), (5.1), 306 34. Standards mean requirements that are approved by the Department to provide 307 for the protection of the school occupants. 31 318 35. Toxic Materials means substances capable of causing injury, illness or death 318 when ingested, inhaled or absorbed. 319 m. School Plant – A fixed location that includes the grounds and the 3cademic, administration, and support structures and facilities. 14.36. n. 318 cause injury, illness or death to humans upon ingestion, inhalation or skin 319 cause disease. Virus means a microscopic organism smaller than a bacterium that may 320 cause disease. Virus means a microscopic organism smaller than a bacterium that may 321 1+1066.5 Incorporation by Reference 322 1+1066.5 Incorporation does not include later amendments to or editions of the 333 cause injury. These or death to human upon ingestion. normation 344 these regulations incorporation by Reference 1+1066.5	301		b. <u>2.</u> Educational programs and health facilities licensed by the
 c. Child care facilities licensed by the Colorado Department of Human Services under provisions of Sections 26-6-102(1.5), (2.5)(a), (5), (5.1), (8), (9), (10)(a), C.R.S. 34. Standards mean requirements that are approved by the Department to provide for the protection of the school occupants. 35. Toxic Materials means substances capable of causing injury, illness or death when ingested, inhaled or absorbed. m. School Plant - A fixed location that includes the grounds and the academic, administration, and support structures and facilities. 14.36. n. Toxic Material - A chemical or other substance that has the ability to cause disease. Viruses can grow or reproduce only in living cells. 14.066.5 Incorporation by Reference These regulations incorporate by reference (as indicated within) materials originally published elsewhere. Such incorporation does not include later amendments to or editions of the referenced material. The Department maintains certified copies of the complete text of any material incorporated by reference (as indicated within) materials originally published elsewhere. Such incorporate by reference (as indicated within) materials originally published elsewhere. Such incorporate the incorporated material at cost upon request. Information regarding how to obtain or examine the incorporated material is available from the Division Director, Division of Environmental Health & Sustainability, Colorado Department of Public Health & Environment, 4300 Cherry Creek Drive South, Denver, C0 80246-1530. 6.6 Compliance Procedures 6.1 Inspections The Department shall conduct inspections to determine the condition of schools for the purpose of safeguarding the health of students, faculty and patrons of the school. The Department shall be permitted to enter and inspect any school at any reasonable time to determine compliance with this regulation or to investigate unhealth	302		Colorado Department of Public Health and Environment under provisions
305 c. Child care facilities licensed by the Colorado Department of Human 306 Services under provisions of Sections 26-6-102(1.5), (2.5)(a), (5), (5,1), 307 (8), (9), (10)(a), C.R.S. 308 34. Standards mean requirements that are approved by the Department to provide 311 for the protection of the school occupants. 312 35. Toxic Materials means substances capable of causing injury, illness or death 318 when ingested, inhaled or absorbed. 314 m. School Plant - A fixed location that includes the grounds and the 316 academic, administration, and support structures and facilities. 317 14.36. n. Toxic Material - A fixed location that includes the grounds and the 318 cause injury, illness or death to humans upon ingestion, inhalation or skin 319 cause linjury, illness or death to humans upon ingestion, inhalation or skin 320 cause disease. Viruses can grow or reproduce only in living cells. 321 1-1066.5 Incorporation by Reference 322 1-4066.5 Incorporated of the incorporated material at cost upon request. Information 324 These regulations incorporate by reference for public inspection during regular business hours and <	303		of Section 25-3-101, Colorado Revised Statutes (C.R.S.).
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349 vocational activities should be inspected a minimum of once per year. All		2	All schools with loboratorios, and (or encoding in industrial outs or how of a
		<u>∠.</u>	
<u>other schools should be inspected a minimum of once per three years.</u>			
	330		other schools should be inspected a minimum of once per three years.

351 352 353 354 355	<u>3.</u>	If a school is provided with water from a non-community water system, as defined in the Colorado Primary Drinking Water Regulations, 5 CCR § 1002-11 the water supply system should be inspected at the frequency established by 5 CCR § 1002-11.
356 357 358 359 360	<u>4.</u>	School food service inspections shall be conducted at the frequency established in the Colorado Retail Food Establishment Rules and Regulations, 6 CCR 1010- 2.
360 361 362 363 364	<u>5.</u>	When an inspection of a school is made, it shall accurately reflect the sanitary conditions at the time of the inspection. Specific findings shall be recorded on the inspection report.
365 366 367 368	<u>6.</u>	Upon completion of the inspection by the Department, a copy of the completed inspection report identifying existing violations shall be furnished to and signed by the school contact.
369 370 371 372	<u>7.</u>	The completed and signed inspection report is a public document that shall be made available for public disclosure, according to law, to any person who requests it.
 373 374 375 376 377 378 270 	8.	If during an inspection, or at any other time, it is determined by the Department that an imminent health hazard exists, the school shall immediately cease operations unless dismissal of the students would be detrimental to their well being or unless an alternative plan for operation has been approved by the Department. Operations shall not be resumed until authorized by the Department.
379 380 381 382		ertification ent may require schools to complete and submit a Self-Certification Checklist.
383 384 385 386 387	<u>1.</u>	A Self-Certification Checklist completed, certified, and signed by an authorized school representative shall be considered equivalent to an on-site inspection performed by the Department.
387 388 389 390 391	<u>2.</u>	Any school that receives a Self-Certification Checklist from the Department shall complete and return the checklist within the time specified in the instructions provided by the Department.
392 393 394 395	<u>3.</u>	A self-certification checklist is deemed returned on the date it is received by the Department. The Department may provide an extension of time to complete and return a checklist upon request.
396 397 398 399	<u>4.</u>	The Self-Certification Checklist shall contain a certification in substantially the following form, which must be signed by an authorized representative of the school:
400 401		a. "I, the undersigned school representative, certify that:

402		(1) I have personally examined and am familiar with the information
403		contained in this submittal;
404 405		(2) The information contained in this submittal is to the best of my
403 406		
400 407		knowledge, true, accurate, and complete in all respects;
407 408		(3) I am fully authorized to make this certification on behalf of this
408		facility; and
409		
411		(4) I am aware that there are significant penalties including, but not
412		limited to, possible fines for willfully submitting false,
413		inaccurate, or incomplete information."
414		
415 416	<u>6.6.3</u>	Compliance Assurance
410	A.	Where a school has violated any provision of the Rules and Regulations Governing
418	<u>, , , , , , , , , , , , , , , , , , , </u>	Schools in the State of Colorado, the Department may issue a compliance advisory
419		requiring the school take actions to correct regulatory deficiencies. A compliance
420		advisory may require the school to design, redesign, install, modify, construct or
421		reconstruct facilities or to take other such corrective action to eliminate any public
422		health hazard.
423		
424	<u>B.</u>	All violations cited during an inspection shall be corrected as soon as possible, but in
425		any event, by the date specified by the Department. Compliance advisories will be
426		sent to the school contact, the Principal, and the District Superintendent.
427		
428	<u>C.</u>	Any school in receipt of a compliance advisory shall prepare and submit to the
429		Department a Plan of Action detailing the corrective measures and timeframe required
430		to rectify critical violations or other significant deficiencies noted during an
431		inspection. Prior to implementation, the Plan of Action must be approved by the
432		Department.
433	5	Unless any side doubt a constant on the Department of a should fail on the
434	<u>D.</u>	Unless provided with a written extension from the Department, a school's failure to
435		complete and submit the Self-Certification Checklist to the Department may result in the issuance of a compliance advisory
436 437		the issuance of a compliance advisory.
437 438	E.	A school's failure to respond to a compliance advisory issued by the Department or
438	<u>.</u> .	rectify critical violations of the Rules and Regulations Governing Schools in the State
440		of Colorado may result in enforcement action including, but not limited to, public
441		notification of unresolved critical violations and noncompliance with these rules and
442		regulations.
443		
444	F.	Prior to the Department initiating enforcement action, an informal meeting may be
445		scheduled by the Department with school officials and other interested persons. This
446		meeting will be to discuss the violations and the reason(s) for noncompliance, and to
447		agree on an appropriate and viable Plan of Action to achieve regulatory compliance.
448		
449	<u>G.</u>	A school contesting an enforcement action may request a hearing. Requests for such a
450		hearing shall be filed in writing with the Department within 30 days after service of
451		the action. Such requests shall state the grounds upon which the action is contested
452		and state the amount of time the school estimates will be required for the hearing.

53	Hearings on the enforcement action shall be held in accordance with applicable
54	provisions of Article 4 of Title 24, C.R.S.
55	
56	H. The Department shall have the power and duty to close a school and forbid the
57	gathering of people therein to protect students, faculty, and patrons of the school
58	from the cause of epidemic and communicable diseases or physical conditions,
9	operations, or maintenance practices that pose an imminent health hazard.
0 1	6.6.4 Variance Procedures
2 3	Schools may apply for a variance to these rules and regulations where the regulation is too
1	stringently applied, the intent can be met in another way, or compliance is cost prohibitive or
	restrictive to curriculum.
	Variance requests will be considered for general provisions of the rules and regulations
	provided public health is protected. Such variance requests shall include the name of the
	school, the applicable section of the regulation and the reason for the request and supporting
	information.
	Variance requests will be considered to allow the use of prohibited chemicals and storage
	limitations on restricted chemicals provided the safety of students and faculty is assured.
	Such variance requests shall include the name of the school, chemical name (and associated
	SDS), and procedures for the management of the chemical, including procurement, storage,
	handling, disposal and spill response as well as the qualification of the person(s) responsible.
	Requests will be reviewed by representatives of the Department. Decisions are final and will
	expire upon a change of circumstances, including changes in responsible personnel or the
	alleviation of the initial hardship.
3	

484	Chapter Two
485	Grounds
486	
487	2-101 The ground shall be self draining and free from depressions in which water
488	may stand and be allowed to stagnate. The grounds shall be kept free from refuse,
489	weed overgrowth, and other hazards.
490	
491	2-102 Livestock or poultry shall be located more than fifty (50) feet from food
492	service areas, offices, or classrooms except those offices and classrooms associated
493	with animal husbandry activities.
494	
494	

495	Chapter Three	
496	<u>6.7</u>	_Sanitary Facilities <mark>And</mark> and Controls
497		
498	<u>6.7.1</u>	_Water Supply
499		
500	<u>A.</u>	<u><u><u>3-101</u></u><u>Adequate, uncontaminated, safe drinking water for the needs of the</u></u>
501		school shall be provided in the building housing the establishment and shall be from a
502		source constructed, maintained, and operated according to the Colorado Primary
503		Drinking Water Regulations and regulations adopted pursuant to Title 25-1.5-203,
504		<u>C.R.S., or</u>
505 506		1 If the school does not meet the definition of a public water system pursuant to
506 507		1. If the school does not meet the definition of a public water system pursuant to the Colorado Primary Drinking Water Regulations, promulgated pursuant to 25-
507 508		1.5-101 and 25-1.5-203, C.R.S., the school shall provide:
508 509		<u>1.5-101 and 25-1.5-205, C.N.5., the school shall provide.</u>
510		a. Adequate treatment on a continuous basis; and
511		a. Adequate reachent on a continuous basis, and
512		b. Bacteriological samples at a minimum of once per quarter or at a
513		frequency determined by the Department; and
514		
515		c. An N, N diethyl-p-phenylene diamine (DPD) colorimetric drinking water
516		test kit capable of testing free chlorine at an accuracy of 0.1 mg/Liter;
517		and
518		
519		d. Free chlorine shall range from a trace amount to 4 mg/Liter (0.2 to 1.2
520		mg/Liter recommended) at any fixture; and
521		
522		e. The previous twelve months of water sample reports shall be retained
523		on file at the school and shall be available for review by the
524 525		Department when request; and the school shall immediately report positive results to Department.
525 526		positive results to Department.
520 527		1.2. Schools with water supplies determined to be surface water or under the direct
528		influence of surface water shall be required to filter their water to 1 micron
529		absolute using National Science Foundation (NSF) approved equipment and
530		maintain a residual disinfectant concentration to ensure inactivation and/or
531		removal of giardia and other parasitic cysts and viruses The water supply system
532		shall provide a safe, potable, adequate water supply which meets the
533		requirements of the Department, including the Colorado Primary Drinking
534		Water Regulations 5 CCR § 1003-1 and where applicable, Rules and Regulations
535		For Well Construction, Pump Installation, and Monitoring and Observation
536		Hole/Well Construction/Water Well Construction Rules, 2 CCR § 402-2 or
537		provisions of other approved local codes.
538		2 102 The water supply system shall deliver water at remost an easting
539	<u>А.В.</u>	_ 3-102 The water supply system shall deliver water at normal operating
540 541		pressures (20 pounds per square inch minimum) to all plumbing fixtures.
541 542	<mark>₿.</mark> С.	3-103 When a total water service interruption exceeds a period of two (2)
542 543	0- <u>0.</u>	hours, the school shall be closed, unless dismissal of the pupils would be detrimental
544		to their physical well being, or unless accessible approved alternatives for providing
545		potable drinking water are available that meet the requirements of and approved by

546		the Department <u>prior to use</u> .
547 548 549 550 551 552	C.<u>D.</u>	<u>3-104</u> Faucets on non-potable water supply systems used for irrigation or similar purposes shall be physically separated from the potable-drinking water supply system and the faucets on the non-potable water system shall be clearly marked as unsafe for drinking.
553 554	<mark>₽.</mark> Е	_ 3-105 The water storage, distribution system, treatment facilities and other mechanical equipment shall be protected from unauthorized access.
555 556 557 558 559	E. F.	3-106 Where water is supplied by the school's independent water supply system, plans for the water system shall be submitted to the Department for approval prior to construction.
560 561	<u>6.7.2</u>	_Sewage Disposal
562 563 564	Α.	3-201 Facilities, approved by the Department, shall be provided and maintained for the treatment and sanitary disposal of sewage.
565 566 567 568	В.	3-202 Where a public sewer system is available, all plumbing fixtures and all building sewer lines shall be connected thereto. (Pursuant to Section 32-1-1006(1)(a)(I) C.R.S.)
569 570 571 572 573	C.	3-203 If a public sewer system is not available, a sewage disposal system meeting the requirements of the Department shall be provided, and all plumbing fixtures, fixtures and building sewer lines shall be connected thereto. (Pursuant to Sections 25-8-702(1) and/or 25-10-105 C.R.S.)
574 575 576 577 578	D.	3-204 Where a total sewer service interruption exceeds a period of two (2) hours, the school shall be closed unless dismissal of the pupils would be detrimental to their physical well being, or unless accessible approved alternatives for the sanitary disposal of sewage are available that meet the requirements of and approved by the Department prior to use.
579 580 581 582 583	E.	3-205 Where non-water carriage sanitary facilities, such as vaults or privies are permitted, they shall be provided and installed in accordance with requirements of the Department.
585 584 585 586 587 588 588 589	F.	3-206 In all new schools and schools modifying existing sewage disposal systems or expanding their usage beyond the design capacity of the sewage disposal system, plans shall be submitted to the Department for review and approval in accordance with provisions of Sections 25-8-702 and/or 25-10-105 C.R.S. prior to construction.
590 591	<u>6.7.3</u>	_Refuse Disposal
592 593 594	Α.	3-301 The storage, collection, transportation and disposal of refuse shall be conducted to control odors, insects, rodents, accidents, or other nuisance conditions.
595 596	В.	3-302 Durable non-absorbent, cleanable refuse, recycling and composting containers shall be provided, kept in a clean condition and placed in readily accessible

597		locations.
598		
599	С.	3-303 Exterior refuse, recycling and compost containers shall be easily
600		cleanable, provided with covers, stored on a smooth surface of non-absorbent
601		material, such as concrete or machine laid asphalt, and kept in a clean, sanitary
602		condition.storage areas shall be kept in a clean, sanitary condition. Refuse
603		receptacles for exterior storage of garbage or putrescible wastes shall be provided
604		with covers. Exterior refuse containers shall be stored on a smooth surface of non-
605		absorbent material, such as a concrete or machine laid asphalt.
606		
607	D	3-304 Exterior putrescible wasterefuse storage areas shall be located a
608	2.	minimum of at least twenty-five (25) feet away from food service areas and
609		classrooms.
610		
611	D.	<u>3-305</u> Interior garbage containers shall be easily cleanable and shall be
612	<u>v.</u>	emptied whenever full. Refuse shall be removed from the buildings-building and
		premises on a and removed from the premises as often as necessary, but not less than
613 614		twice weekly when putrescible wastes are stored regular basis, or at a minimum every
615		seven days, and in a manner which would prevent creation of a nuisance condition.
616	E.	Dispersion of here where metavials shall be conducted in a cafe meaner and in
617	E.	Disposal or removal of hazardous materials shall be conducted in a safe manner and in
618		accordance with state, federal, and local provisions.
619		Jacob And Dedant Control And and Classes on Animals
620	0.7.4	Insect-And, Rodent Control And and Classroom Animals
(01		
621		2 101 - Jacoba and the second of the second shell be second when they
622	Α.	3-401 Insects, rodents, bats and other pests shall be managed, when they
622 623	A.	reach levels considered to pose economic or health threats, with integrated strategies
622 623 624	Α.	reach levels considered to pose economic or health threats, with integrated strategies for long-term pest suppression, using the most cost effective means with the least
622 623 624 625	Α.	reach levels considered to pose economic or health threats, with integrated strategies for long-term pest suppression, using the most cost effective means with the least possible hazard to people, property, and the environment Rodents and insects shall be
622 623 624 625 626	Α.	reach levels considered to pose economic or health threats, with integrated strategies for long-term pest suppression, using the most cost effective means with the least
622 623 624 625 626 627		reach levels considered to pose economic or health threats, with integrated strategies for long-term pest suppression, using the most cost effective means with the least possible hazard to people, property, and the environment Rodents and insects shall be controlled to maintain the facility free from vermin.
622 623 624 625 626 627 628	А. В.	reach levels considered to pose economic or health threats, with integrated strategies for long-term pest suppression, using the most cost effective means with the least possible hazard to people, property, and the environmentRodents_and insects shall be controlled to maintain the facility free from vermin. 3-402 Animals used for instructional purposes shall be maintained in a sanitary
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647	6.7.5	Plumbing

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- A. 3-501 In the absence of more stringent plumbing codes, <u>all plumbing fixtures</u>
 shall be installed and maintained in accordance with the 2000 2009 10 Colorado
 Plumbing Code (2000 UniformInternational Plumbing Code, and amendments adopted
 by the State of Colorado "Examining Board of Plumbers") shall be used as a guideline
 for the installation and maintenance of all plumbing fixtures.
- 655B.3-502Plumbing fixtures shall be maintained in working order and in a clean656sanitary condition. All plumbing fixtures shall be designed and maintained to be657accessible by the age group being served.
- 659 C. <u>3-503</u> The potable drinking water supply shall be installed and maintained to
 660 preclude the possibility of backflow or back-siphonage of non-potable, used, unclean,
 661 polluted and contaminated water, or other substances, into any part of the potable
 662 drinking water system.
- 664 C.D. <u>3-504</u> A properly installed approved backflow prevention device shall be provided for
 665 all <u>potable-drinking</u> water supply outlets which are capable of receiving a hose
 666 connection.

6.7.6 Toilet, Lavatory Andand Bathing Facilities

- 671A.3-601Schools shall take active steps to ensure hand washing before eating,672after restroom use, and any other time hands may be contaminated.
- 674 B. Toilet, lavatory, bathing facilities and drinking fountains shall be provided and
 675 accessible for use by physically handicapped personsinstalled in accordance 28 CFR,
 676 Part 36, Nondiscrimination On The Basis Of Disability By Public Accommodations And
 677 In Commercial Facilities.
- 678
 679 C. Each hand washing and classroom sink shall be provided with hot and cold water
 680 through a mixing valve or combination faucet. Hot water at sinks accessible to
 681 children shall be at least 90°F and shall not exceed a temperature of 120°F.
- 683D.The use of hand sanitizers in lieu of hand washing is not approved for use within the
facility. Hand sanitizers may be used for staff and children and only at times and in
areas where hand washing facilities are not available, such as while out of doors in
remote locations. Hand sanitizers shall be stored in an area where use can be
monitored.
- E. Sanitizers are to be used on surfaces that commonly come into contact with food, hands, the mouth, eyes, nose, and exposed skin of children and staff. General surfaces, chairs, desks, tables, keyboards, computer mice must be cleaned and sanitized at least once a week or whenever visibly soiled.
- 693 <u>1. Acceptance of sanitizers shall be determined by the following requirements:</u>
- 694a.The chemical is registered with the U.S. Environmental Protection695Agency and the use of the chemical is in accordance with labeled

696		instructions, including:
697		(1) Concentration
698		(2) Contact time
699		(3) Method and
700		(4) Surfaces; and
701		b. Sanitizers shall meet the formulation, concentration and application
701		requirements of the Department.
703		
704	<u>F.</u>	Disinfectants are to be used on surfaces that are commonly contaminated with high
705 706		hazard body fluids, such as but not limited to restroom surfaces, toilet, diaper changing areas and surfaces that have been in contact with high hazard body fluids.
707		1. Acceptance of disinfectants shall be determined by the following requirements:
708		a. The chemical is registered with the U.S. Environmental Protection Agency
709		and the use of the chemical is in accordance with labeled instructions,
710		including:
711		(1) Concentration
712		(2) Contact time
713		(3) Method and
714		(4) Surfaces; and
715		a. Disinfectants shall meet the formulation, concentration and application
716		requirements of the Department.
717		b.
718	<u>G.</u>	<u>3-602</u> Drinking fountains shall be conveniently located on each floor and easily
719		accessible to all school program activities. Drinking fountains shall not be located on
720		sinks in science or art areas or in toilet rooms or other areas with increased potential
721 722		for contamination (e.g., science, vocational, industrial, photography or art education areas).
723		
724	<u>А.</u> Н.	Drinking fountains shall be equipped with angled jets and orifice guards located above
725		the rim of the fountain. The pressure shall be regulated so that the water stream
726		does not come in contact with, and passes, the orifice guard or splash onto the floor.
727 728		Separate angle jet drinking fountains, when installed, shall be at an appropriate height.
728		<u>neight.</u>
730	<mark>₿.</mark> Ⅰ.	3-603 Use of common drinking cups or vessels is prohibited.
731		
732	<mark>C.</mark> J.	3-604 Toilet rooms shall be conveniently located at a travel distance of not
733		more than two hundred (200) feet from any room to be served. All toilet rooms shall
734		be provided with adequate lavatory facilities.
735		2.405 Coop and single convice towels shall be evailable for all leveters
736	D.<u>К.</u>	<u><u><u>3-605</u></u>Soap and single service towels shall be available for all lavatory</u>
737 738		facilities, except that mechanical warm air dryers may be used in lieu of towels.
739	E.L.	3-606 Hot and cold water or tempered water under operating pressures (20 PSI
	· · · ·	

minimum) shall be available for bathing and washing. Hot water delivered to showers
and lavatories shall be at least ninety degrees (90°F) and shall not exceed one hundred
and twenty degrees (120°F). The temperature of hot water at other fixtures shall not
exceed one hundred and forty degrees (140°F), except where necessary for sanitizing
purposes.

- F.M. <u>3-607</u> Toilet<u>s bowls</u> shall be equipped with non-absorbent, <u>easily</u>
 <u>cleanablesanitary</u> toilet seats. Toilet paper shall be available at each toilet mounted
 in an appropriate dispenser.
- 750G.N.3-608Floors, walls, and ceilings of all toilet, shower and locker rooms shall be
smooth, easily cleanable, non-absorbent and shall be maintained in good repair and in
a clean, sanitary condition.
- 754H.O.3-609In new construction, aAfloor drain and a keyed hose bib with a vacuum755breaker shall be available for all toilet rooms having a total combination of two (2) or756more water closets or urinals. The floors in these rooms shall slope to the floor757drains.
- ——Showers shall be installed in accordance with the 2009 International 759 Η-P. 3-610 Plumbing Code or as approved by the Department. A minimum of nine (9) square feet 760 of floor area shall be provided per shower head in existing structures. New structures 761 shall have twelve (12) square feet of floor area per shower head. Centralized shower 762 heads shall be located at least three (3) feet apart. Showers shall be constructed to 763 prevent water flow into the drying or dressing room space and shall slope to the floor 764 drains. Shower floors, ceilings, and walls shall be easily cleanable and shower floors 765 shall have a non-skid surface. 766
- Q.3-611Functional water outlets hose bibsshall be available, where necessary,769at designated refuse, compost and recyclingstorage areas and at high density student770common use areas within fifty (50) feet of the building where heavy accumulations of771refuse are generated to minimize hazards and to maintain such areas in a clean, safe772condition...
 - 6.7.7 Diapering and Toileting

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Where diapering or bowel/bladder hygiene care is necessary, a separate changing area with
 privacy shall be available with a cleanable impervious surface large enough to accommodate
 the individual in care.

- 1. This changing area shall be located:
 - a. Away from any food preparation, storage and servicing areas.
 - b. Nearby a handwashing sink with soap and hot and cold running water.
- c. Adjacent to a washable, covered container lined with a plastic bag, inaccessible to children, and used for disposal of soiled diapers, wipes and gloves.

790 791		d. Items unrelated to diaper changing shall not be placed on the changing tables or wall hung changing stations.	
791 792		tables of wall hung changing stations.	
792 793	2	If a changing mat is used it shall be kept clean and in good repair and shall be	
793 794	<u>2.</u>	cleaned and disinfected after each use.	
795		cleaned and disinfected after each use.	
796	3.	The following procedure shall be conducted each time bowel or bladder	
797	<u>.</u>	hygiene is provided:	
798			
799		a. Whenever bowel or bladder hygiene is conducted, individuals shall wear	
800		a new pair of disposable gloves prior to beginning.	•
801			
802		b. The student shall be cleaned wherever necessary.	
803			
804		c. Soiled diapers/underwear and clothing shall be replaced with clean	
805		diapers/underwear and clothing.	
806			
807		d. Soiled clothes shall be placed in a plastic bag for parents or guardians to)
808		take home. Soiled diapers shall be placed in a covered, impervious	
809		plastic lined receptacle.	
810			
811		e. The student's hands shall be washed.	
812		(4) A substant start and sufficient should be shown at a start for the d	
813		(1) Any contaminated surfaces should be cleaned and disinfected.	
814		• f The staff member shall then the your block use his (her bands	
815 816		a.f. The staff member shall then thoroughly wash his/her hands.	
810	b. <u>3-612</u>	Plans and specifications for the installation of sanitary facilities in	
818		g schools being remodeled to increase the occupant load shall be submitted for	
819		and approval in accordance with Departmental regulations prior to construction.	
820	c.	and approval in accordance with Departmental regulations prior to construction.	
821	d. 3-613	Swimming pools shall be constructed, operated, and maintained in	
822		ance with the Colorado Department of Public Health and Environment Swimming	
823		ad Mineral Bath Regulations, 5 CCR § 1003-5. Plans for new or extensively	
824		eled pools shall be submitted to the Department for review and approval prior to	
825	constru		
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829	Chapt	er Four
830	6.8	Buildings , Occupancy, Space And Use and Grounds
832	0.0	_building_, becapancy, space And ose and broands
833	681	Buildings
834	<u></u>	
835	Α.	4-101 The school plant-campus and accessory buildings shall be maintained in
836		good repair and in a clean and sanitary condition and in a manner that minimizes
837		health and safety hazards to building occupants.
838		
839	В.	4-102 Adequate space shall be provided for each person in classrooms,
840		libraries, shops, laboratories, vocational training rooms, dining rooms, and other
841		related activity rooms or areas to lessen the possibility of health hazards, and disease
842		transmission. In the absence of more stringent guidelines Adequate space is required
843		in accordance with the 1997 Uniform Building 2006 International Building Code shall be
844		used as a guideline for determining adequacy of space.
845		
846	С.	4-103 Where necessary, classroom windows shall be equipped with blinds,
847		shades of translucent material, or other effective means to prevent glare and to
848		control natural light.
849		_
850	D.	4-104 Windows, when opened, shall not create a hazard such as noise, dust,
851		fumes or extreme temperatures or hazard that may result in physical injury.
852	_	
853	<u>E.</u>	_4-105Exposure to noise, dusts, toxic chemicals, or other hazards shall be
854		controlled <u>at all times including</u> when the building or portion thereof is occupied
855		during construction or remodeling.
856		1 Drive to remodeling any parties of the school building on inspection identifying
857 858		1. Prior to remodeling any portion of the school building, an inspection identifying asbestos containing materials shall be conducted, and an asbestos management
858 859		plan complying with the provisions of the Colorado Air Quality Control
859		Commission Regulation No. 8 shall be developed and maintained.
860 861		commission regulation no. o shall be developed and maintained.
862		1.2. Schools constructed after the effective date of these rules and regulations shall
863		complete radon tests within nineteen months of the date of occupancy.
864		Schools remodeled after the effective date of these rules and regulations shall
865		notify the Department of such remodeling in order that the Department may
866		assess the need for any additional radon testing. Radon tests shall be
867		conducted pursuant to the procedures described in the Environmental
868		Protection Agency's, Radon Measurements in Schools, Revised Edition July 1993
869		(EPA Documents #402-R-92-014). The results of these tests shall be on file at
870		each school and available for review.
871		
872	<u>F.</u>	_4-106When there is a change in classroom use, the design and construction of
873	_	the classroom facilities shall be appropriate for the new use, including safety
874		provisions required by Section 6.12 of this regulation, where applicable.
875		
876	<u>G.</u>	Detached structures and modular classrooms not provided with plumbing shall be no
877		more than 500 feet from restrooms and drinking water fountains, accessible through

878		an unlocked door or key access during all hours of operation, and shall be adequately
879		ventilated.
880		
881	<u>H.</u>	The school campus shall be maintained in a manner that prevents fire hazards. Fire
882		control methods shall conform to state and local fire prevention regulations.
883		
884	Ι.	School buses shall be operated and maintained to avoid health and safety hazards.
885		· · · · · · · · · · · · · · · · · · ·
886	6.8.2	Grounds
887		
888	Α.	The ground shall be self draining and free from depressions in which water may stand
889		and be allowed to stagnate. The grounds shall be kept free from refuse, unused
890		equipment, weed overgrowth, and other hazards. All outdoor areas shall be
891		maintained in a sanitary condition and be free of insect and rodent harborages, open
892		or accessible wells, grease traps, cisterns, cesspools, septic tanks, and/or utility
893		equipment.
894		
895	В.	Raw agricultural products grown on-site shall be permitted in school cafeterias
896	<u>D.</u>	provided school gardens and greenhouses conform to U.S. Department of Agriculture
897		Good Agricultural Practices.
898		dood Agricultural Fractices.
898 899	с.	Livestock or poultry shall be located more than fifty (50) feet from food service areas,
900	<u>c.</u>	offices, or classrooms except those offices and classrooms associated with animal
900 901		husbandry activities.
901 902		Indsballery activities.
903 904	69	Mechanical Requirements
904	<u>6.9</u>	Mechanical Requirements
904 905		
904 905 906	<u>6.9</u> <u>6.9.1</u>	<u>Mechanical Requirements</u> Electrical
904 905 906 907	<u>6.9.1</u>	Electrical
904 905 906 907 908		Electrical <u>5-101</u> Schools shall be provided with operational electrical service and
904 905 906 907 908 909	<u>6.9.1</u>	Electrical
904 905 906 907 908 909 910	<mark>6.9.1</mark> A.	Electrical 5-101 Schools shall be provided with operational electrical service and artificial lighting throughout the schoolat all times when occupied.
904 905 906 907 908 909 910 911	<u>6.9.1</u>	Electrical <u>5-101</u> Schools shall be provided with operational electrical service and artificial lighting throughout the schoolat all times when occupied. <u>5-102</u> The electrical system shall be maintained in good repair and shall not
904 905 906 907 908 909 910 911 912	<mark>6.9.1</mark> A.	Electrical <u>5-101</u> Schools shall be provided with operational electrical service and artificial lighting throughout the schoolat all times when occupied. <u>5-102</u> The electrical system shall be maintained in good repair and shall not present a hazard to health and safety. In the absence of more stringent electrical
904 905 906 907 908 909 910 911 912 913	<mark>6.9.1</mark> A.	Electrical <u>5-101</u> Schools shall be provided with operational electrical service and artificial lighting throughout the schoolat all times when occupied. <u>5-102</u> The electrical system shall be maintained in good repair and shall not present a hazard to health and safety. In the absence of more stringent electrical codes, installation, maintenance and use of the electrical system shall adhere to the
904 905 906 907 908 909 910 911 912 913 914	<mark>6.9.1</mark> A.	Electrical Schools shall be provided with operational electrical service and artificial lighting throughout the schoolat all times when occupied. 5-102 The electrical system shall be maintained in good repair and shall not present a hazard to health and safety. In the absence of more stringent electrical codes, installation, maintenance and use of the electrical system shall adhere to the 2002-2014 National Electrical Code shall be used as a guideline for the installation,
904 905 906 907 908 909 910 911 912 913 914 915	<mark>6.9.1</mark> A.	Electrical <u>5-101</u> Schools shall be provided with operational electrical service and artificial lighting throughout the schoolat all times when occupied. <u>5-102</u> The electrical system shall be maintained in good repair and shall not present a hazard to health and safety. In the absence of more stringent electrical codes, installation, maintenance and use of the electrical system shall adhere to the
904 905 906 907 908 909 910 911 912 913 914 915 916	<mark>6.9.1</mark> А. <u>В.</u>	Electrical Schools shall be provided with operational electrical service and artificial lighting throughout the schoolat all times when occupied. 5-102 The electrical system shall be maintained in good repair and shall not present a hazard to health and safety. In the absence of more stringent electrical codes, installation, maintenance and use of the electrical system shall adhere to the 2002-2014 National Electrical Code shall be used as a guideline for the installation, maintenance and use of the electrical system.
904 905 906 907 908 909 910 911 912 913 914 915 916 917	<mark>6.9.1</mark> A.	Electrical 5-101 Schools shall be provided with operational electrical service and artificial lighting throughout the schoolat all times when occupied. 5-102 The electrical system shall be maintained in good repair and shall not present a hazard to health and safety. In the absence of more stringent electrical codes, installation, maintenance and use of the electrical system shall adhere to the 2002-2014 National Electrical Code shall be used as a guideline for the installation, maintenance and use of the electrical system. When an electrical service interruption exceeds a period of two (2) hours, the school
904 905 906 907 908 909 910 911 912 913 914 915 916 917 918	<mark>6.9.1</mark> А. <u>В.</u>	 Electrical 5-101 Schools shall be provided with operational electrical service and artificial lighting throughout the schoolat all times when occupied. 5-102 The electrical system shall be maintained in good repair and shall not present a hazard to health and safety. In the absence of more stringent electrical codes, installation, maintenance and use of the electrical system shall adhere to the 2002-2014 National Electrical Code-shall be used as a guideline for the installation, maintenance and use of the electrical system. When an electrical service interruption exceeds a period of two (2) hours, the school shall be closed, unless dismissal of the pupils would be detrimental to their physical
904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919	<mark>6.9.1</mark> А. <u>В.</u>	Electrical 5-101 Schools shall be provided with operational electrical service and artificial lighting throughout the schoolat all times when occupied. 5-102 The electrical system shall be maintained in good repair and shall not present a hazard to health and safety. In the absence of more stringent electrical codes, installation, maintenance and use of the electrical system shall adhere to the 2002-2014 National Electrical Code shall be used as a guideline for the installation, maintenance and use of the electrical system. When an electrical service interruption exceeds a period of two (2) hours, the school shall be closed, unless dismissal of the pupils would be detrimental to their physical well being, or unless accessible approved alternatives for providing lighting,
904905906907908909910911912913914915916917918919920	<mark>6.9.1</mark> А. <u>В.</u>	Electrical 5-101 Schools shall be provided with operational electrical service and artificial lighting throughout the schoolat all times when occupied. 5-102 The electrical system shall be maintained in good repair and shall not present a hazard to health and safety. In the absence of more stringent electrical codes, installation, maintenance and use of the electrical system shall adhere to the 2002-2014 National Electrical Code shall be used as a guideline for the installation, maintenance and use of the electrical system. When an electrical service interruption exceeds a period of two (2) hours, the school shall be closed, unless dismissal of the pupils would be detrimental to their physical well being, or unless accessible approved alternatives for providing lighting, temperature control, and hot water are available that meet the requirements of the
904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921	<mark>6.9.1</mark> А. <u>В.</u>	Electrical 5-101 Schools shall be provided with operational electrical service and artificial lighting throughout the schoolat all times when occupied. 5-102 The electrical system shall be maintained in good repair and shall not present a hazard to health and safety. In the absence of more stringent electrical codes, installation, maintenance and use of the electrical system shall adhere to the 2002-2014 National Electrical Code shall be used as a guideline for the installation, maintenance and use of the electrical system. When an electrical service interruption exceeds a period of two (2) hours, the school shall be closed, unless dismissal of the pupils would be detrimental to their physical well being, or unless accessible approved alternatives for providing lighting,
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904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923	6.9.1 A. <u>B.</u> <u>B.C.</u>	Electrical 5-101 Schools shall be provided with operational electrical service and artificial lighting throughout the schoolat all times when occupied. 5-102 The electrical system shall be maintained in good repair and shall not present a hazard to health and safety. In the absence of more stringent electrical codes, installation, maintenance and use of the electrical system shall adhere to the 2002-2014 National Electrical Code shall be used as a guideline for the installation, maintenance and use of the electrical system. When an electrical service interruption exceeds a period of two (2) hours, the school shall be closed, unless dismissal of the pupils would be detrimental to their physical well being, or unless accessible approved alternatives for providing lighting, temperature control, and hot water are available that meet the requirements of the
904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924	6.9.1 A. <u>B.</u> <u>B.C.</u>	Electrical 5-101 Schools shall be provided with operational electrical service and artificial lighting throughout the schoolat all times when occupied. 5-102 The electrical system shall be maintained in good repair and shall not present a hazard to health and safety. In the absence of more stringent electrical codes, installation, maintenance and use of the electrical system shall adhere to the 2002-2014 National Electrical Code-shall be used as a guideline for the installation, maintenance and use of the electrical system. When an electrical service interruption exceeds a period of two (2) hours, the school shall be closed, unless dismissal of the pupils would be detrimental to their physical well being, or unless accessible approved alternatives for providing lighting, temperature control, and hot water are available that meet the requirements of the Department. Lighting
904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925	6.9.1 A. <u>B.</u> <u>B.C.</u>	Electrical 5-101 Schools shall be provided with operational electrical service and artificial lighting throughout the schoolat all times when occupied. 5-102 The electrical system shall be maintained in good repair and shall not present a hazard to health and safety. In the absence of more stringent electrical codes, installation, maintenance and use of the electrical system shall adhere to the 2002-2014 National Electrical Code shall be used as a guideline for the installation, maintenance and use of the electrical system. When an electrical service interruption exceeds a period of two (2) hours, the school shall be closed, unless dismissal of the pupils would be detrimental to their physical well being, or unless accessible approved alternatives for providing lighting, temperature control, and hot water are available that meet the requirements of the Department. Lighting 5-201 The electrical lighting system shall provide the following average light
904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926	6.9.1 A. <u>B.</u> <u>B.C.</u>	Electrical 5-101 Schools shall be provided with operational electrical service and artificial lighting throughout the schoolat all times when occupied. 5-102 The electrical system shall be maintained in good repair and shall not present a hazard to health and safety. In the absence of more stringent electrical codes, installation, maintenance and use of the electrical system shall adhere to the 2002-2014 National Electrical Code shall be used as a guideline for the installation, maintenance and use of the electrical system. When an electrical service interruption exceeds a period of two (2) hours, the school shall be closed, unless dismissal of the pupils would be detrimental to their physical well being, or unless accessible approved alternatives for providing lighting, temperature control, and hot water are available that meet the requirements of the Department. Lighting 5-201 The electrical lighting system shall provide the following average light level intensities: thirty-five (35) foot candles for classrooms, libraries, offices,
904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925	6.9.1 A. <u>B.</u> <u>B.C.</u>	Electrical 5-101 Schools shall be provided with operational electrical service and artificial lighting throughout the schoolat all times when occupied. 5-102 The electrical system shall be maintained in good repair and shall not present a hazard to health and safety. In the absence of more stringent electrical codes, installation, maintenance and use of the electrical system shall adhere to the 2002-2014 National Electrical Code shall be used as a guideline for the installation, maintenance and use of the electrical system. When an electrical service interruption exceeds a period of two (2) hours, the school shall be closed, unless dismissal of the pupils would be detrimental to their physical well being, or unless accessible approved alternatives for providing lighting, temperature control, and hot water are available that meet the requirements of the Department. Lighting 5-201 The electrical lighting system shall provide the following average light

candles for reception rooms, rest-rooms, gymnasiums, service rooms, swimming areas
 and dining areas; ten (10) foot candles for auditoriums, locker rooms and stairways;
 and five (5) foot candles for corridors, hallways, storage and utility areas. Light level
 intensities shall be measured at the work surface or thirty (30) inches from the floor.

- 934B.5-202Extreme brightness ratios (glare and shadow) shall be minimized by
avoiding glossy surfaces, by use of diffused lighting, by use of easily cleanable high
light reflectance paints or other finishes for ceilings, walls, and floors, by use of
window shades, routine cleaning and maintenance of electrical fixtures, and/or other
measures necessary to prevent undue glare and maintain a high level of light
effectiveness.
- 941 C. 5-203 Appropriate measures shall be taken to assure that persons are not
 942 exposed to <u>harsh lighting</u>, such as ultra-violet light, which may be harmful to the eyes,
 943 such as ultra-violet light.

6.9.3 Ventilation

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959

- Α. -Ventilation, mechanical or natural, shall be installed and maintained in 947 5-301 accordance with the 2013 American Society of Heating, Refrigeration and Air 948 Conditioning Engineers Standard 62.1-2013, Ventilation for Acceptable Indoor Air 949 Quality and to minimize health hazards including excessive drafts, extreme 950 temperatures, humidity, and temperature fluctuations. The American Society of 951 Heating, Refrigeration and Air Conditioning Engineers 1989 Standard 62, Ventilation 952 for Acceptable Indoor Air Quality shall be used as a guideline for proper indoor 953 954 ventilation. 955
- 956B.5-302
according to manufacturer's recommendations
dust or debris.Ventilation system filters shall be cleaned or replaced regularly or
according to manufacturer's recommendations
to prevent excessive accumulation of
dust or debris.
- 960C.5-303Each room provided with an exhaust system shall have air supplied to961the room equal to the amount to be exhausted. Windows shall not be used for the962purpose of providing makeup air.
- 964D.5-304Unvented combustion heaters, kitchen stoves, or hot plates shall be965prohibited for space heating purposes. Portable electric heaters with exposed966elements shall not be used in any student activity area.
- 967
 968 E. 5-305 Hot plates, skillets, or similar type cooking appliances shall be used for
 969 food preparation only in kitchen, home economics room, or in rooms specifically
 970 designated and equipped for such use.
- 971 F. G.E. In schools where smoking of tobacco products is permitted indoors, such 972 5-306 smoking must be confined to an enclosed room(s) and the building ventilation system 973 shall effectively remove environmental tobacco smoke (ETS), so as to protect students 974 and nonsmoking staff from its irritating and harmful effects. Smoking areas must also 975 be segregated from common work and break areas, in order that workers who choose 976 977 to refrain from ETS exposure can, in the normal course of their duties, do so.
- 978

979 **<u>6.9.4</u>**—Heating

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5-401 The heating system provided shall be properly maintained and provide, in all
 occupied rooms, minimum room temperatures of sixty (60°) F sixty (60) inches above the floor
 in shops and gymnasiums and sixty-five (65°) F thirty (30) inches above the floor in
 elementary, secondary, and higher educational school classrooms, and at floor level in
 kindergarten and day care center areas. A plan that addresses operating during periods of
 extreme temperature, as it relates to indoor air, shall be developed.

989	Chapt	er Six
990	6.10	_Equipment Andand Supplies
991 992 993	Α.	6-101 Instructional, athletic, recreational or other equipment used in or out of the classroom shall be maintained in a clean, safe condition.
994 995 996 997	В.	6-102 Toys and equipment shall meet the current requirements of the Colorado Hazardous Substance Act (Section 25-5-501 and Section 25-5-508, et. seq., C.R.S.).
998 999 1000 1001	С.	6-103 Gym equipment shall be kept clean and in good repair. Body contact equipment surfaces shall be routinely cleaned and sanitized.
1001 1002 1003 1004	D.	6-104 Equipment used in physical therapy and special education shall be cleaned and sanitized after each use.
1005 1006 1007 1008	E.	6-105 Facilities shall be available for the proper storage of clean clothing, and of athletic, instructional, and recreational equipment and supplies to minimize health hazards and to facilitate cleaning.
1009 1010 1011 1012 1013 1014	F.	6-106 Cleaning materials, tools, and maintenance equipment shall be provided and shall be safely stored and secured in a locked area. <u>Safety Data Sheets (SDS) for</u> <u>pesticides, toxic or hazardous cleaning and maintenance chemicals and materials shall</u> <u>be maintained and organized to be easy to locate in the event of a spill or accidental</u> <u>exposure.</u>
1014 1015 1016 1017 1018 1019 1020 1021 1022 1023	G.	6-107 Pesticides, toxic or hazardous cleaning and maintenance chemicals and materials shall be stored separately in a ventilated and locked cabinet or area accessible only to authorized personnel. The ventilation requirement of this section may not be required in areas where minimum quantities of the above mentioned materials are stored for daily use. In the absence of more stringent guidelines requirements flammable or combustible materials shall be stored in accordance with the 2000-2015 National Fire Protection Association Code 30 Flammable and Combustible Liquids Code.
1025 1024 1025 1026 1027 1028	Н.	6-108 Kindergartens, health service rooms, or other areas, where sleeping is permitted shall be provided with sleeping facilities including cots or pads, with washable or disposable covers. These sleeping facilities shall be maintained in good repair and provided in a clean condition for each new user.
1028 1029 1030 1031 1032 1033 1034 1035	I.	6-109 Towels and wash cloths, and other linens, where provided, shall be laundered to insure exposure to ain water temperature of at least one hundred-thirty forty degrees (130°F140°F) for a combined wash and rinse period of at least twenty-five (25) minutes or shall reach at least 140°F in a heat drying cycle. an equally effective washing procedure. Such linens, towels, and wash cloths shall be issued clean, used by only one person and shall be laundered after each use.

1036		Chapter Seven
1037	<u>6.11</u>	School-Food Service
1038		
1039	<u>A.</u>	Food service activities shall be conducted in accordance with the requirements of the
1040		Colorado Retail Food Establishment Rules and Regulations, 6 CCR 1010-2.
1041		
1042		1. 7-101 Each s <u>S</u> chools preparing food either off site or on site, or serving
1043		food other than pre-packaged, non-potentially hazardous food or raw,
1044		<u>unprocessed produce</u> shall obtain a certificate <u>Retail Food Establishment</u>
1045		License or Certificate of License as required by provisions of Section 25-4-
1046		1607(9)(a)(l) C.R.S.
1047		
1048	В.	7-102 Food service activities shall be conducted in conformance accordance
1049		with the physical and operational requirements of the Colorado Retail Food
1050		Establishment Rules and Regulations 6 CCR § -1010-2.
1051	<i>c</i>	
1052	С.	7-103 Food served by Establishments serving food at the school but not
1053		prepared on site by school staff shall be obtained licensed, from sources inspected and
1054		approved by the Department. The <u>food</u> - <u>Food</u> shall be transported, stored and served
1055		in a manner to prevent contamination <u>, time and temperature abuse</u> or adulteration.
1056 1057	D.	7-104 Dining activities shall be confined to rooms or areas designated by the
1057	D.	school administrator. The dining area shall be maintained clean, and in a sanitary
1058		condition.
1059		
1060	E.	7-105 Plans and specifications for construction or alteration of food service
1061	۲.	facilities shall be submitted in accordance with the requirements of Section 25-4-1605
1062		C.R.S.
1065		

1065 1066 1067	<u>6.12</u>	Chapter Eight Laboratory, Industrial, Art, And<u>and</u> Vocational Hazards
1068	<u>6.12.1</u>	General Procedures
1069 1070 1071 1072 1073 1074 1075 1076 1077 1078 1079 1080 1081 1082	<u>A.</u>	<u>8-101</u> Provisions shall be made for the protection of students <u>and staff</u> engaging in arts, crafts, industrial arts, physical <u>and biological</u> sciences, vocational, educational or any activities where <u>potentially</u> hazardous chemicals, hazardous devices or hazardous equipment are used. These provisions include the development and posting of operating instructions, <u>regulations and proceduresregulations</u> , procedures, and a chemical hygiene plan. All potentially hazardous chemicals, hazardous devices or hazardous equipment including those used in art, industrial art and vocational art areas shall be used only in accordance with the product labeling. If available, specific manufacturer's instructions and warnings for safe use of the product or equipment shall be followed. When available, products with the safest materials shall be used (e.g., those with few or no cautionary/warning labels). Additional guidance regarding potential hazards and health and safety provisions associated with industrial and vocational arts and crafts is provided in the U.S.
1083 1084		Consumer Product Safety Commission's Publication No. 5015, Art and Craft Safety Guide.
1085 1086 1087	<u>B.</u>	Exposure to noise, or toxic liquids, dusts, gases, mists, fumes or vapors or other hazards shall be controlled to avoid health hazards.
1088 1089 1090 1091 1092 1093	<u>C.</u>	A current SDS shall be provided in an organized and easily searchable format (e.g., alphabetically filed) for all toxic or hazardous substances and shall be available for review upon request. A copy of the SDS shall be kept on file in a location away from the areas where the aforementioned chemicals are stored. Digital or other electronic versions of SDS may be approved at the discretion of the local fire authority.
1094 1095 1096 1097 1098 1099	<u>D.</u>	In the absence of more stringent standards the 2012 National Fire Protection Association Code 30 Flammable and Combustible Liquids Code and 2011 National Fire Protection Association Code 45 Fire Protection for Laboratories Using Chemicals shall be used as standards for the proper storage, handling and use of chemicals in the school.
1100 1101 1102 1103 1104 1105 1106 1107	<u>E.</u>	A chemical hygiene plan which addresses all areas of the school where toxic or hazardous substances are used or stored shall be provided. All restricted chemicals present in the school, including those stored in laboratory, vocational, arts, and custodial areas, shall be individually addressed in the plan. A copy of the plan shall be kept on file in a location away from the areas where chemicals are stored. The chemical hygiene plan shall be reviewed and updated, as necessary, at least once annually. All schools must develop a Chemical Hygiene Plan by January 1, 2016.
1108 1109 1110 1111 1112 1113 1114 1115	<u>F.</u>	Procedures shall be established for the management of chemical waste and shall be addressed in the chemical hygiene plan. All containers of chemical waste shall be labeled to their contents and with the words "not for use" or "waste", maintained in good condition and separated by reactive group. Chemical waste shall be stored in a designated area away from normal classroom operations and away from sinks and floor drains. Chemical waste shall be handled and stored in a manner that minimizes the possibility of a fire, explosion, or release. A hazardous waste determination shall be

1116		made for all waste chemicals in accordance with 6 CCR 1007-3 Part 261 of the
1117		Colorado Hazardous Waste Regulations. Hazardous waste chemicals must be properly
1118		disposed of at a permitted facility and shall not be disposed of on-site. All other
1119		chemical waste shall be disposed of using an appropriate method as provided on the
1120		chemical SDS, or as indicated by the manufacturer.
1121		
1122	<u>G.</u>	A current list of emergency services with telephone numbers, including the name,
1123		address and telephone number of the school, shall be posted in one or more prominent
1124		place(s) in each school.
1125		
1126	Н.	Aspirators or suction bulbs shall be used for drawing liquids into pipettes. The mouth
1127		must not be used directly on the pipettes.
1128		
1129	6.12.2	2 Safety Equipment
1130		
1130	Α.	Protective clothing, that meets the ANSI Z49.1-2014 Standard- Safety in Welding,
1131		Cutting, and Allied Processes, shall be worn by all students participating in, observing,
1132		or in close proximity to welding or other such activities that could result in sparks
1133		contacting clothing. Welding helmets, that meet the requirements of ANSI Z49.1-2014
1135		Standard- Safety in Welding, Cutting, and Allied Processes, shall be worn by all
1135		students participating in, observing, or in close proximity to welding. Protective
1130		clothing shall be maintained clean and in good repair.
		ciotining shall be maintained clean and in good repair.
1138	D	Eve protection, that most the ANSI 797 1 2010 Standard for Occupational and
1139	<u>B.</u>	Eye protection, that meet the ANSI Z87.1-2010 Standard for Occupational and
1140		Educational Personal Eye and Face Protection Devices must be worn by all students
1141		participating in, observing, or in close proximity to any experiment or activity which
1142		could result in eye injury. Eye protection glasses, goggles, face shields, and similar
1143		eye protection devices shall be issued clean, in good repair and properly sanitized
1144		between students and stored in a protected place. Sanitization of eye protection can
1145		be accomplished using a ultraviolet light case, a chemical sanitizer in accordance with
1146		Section 6.7.6, or other effective means approved by the Department.
1147	-	
1148	<u>C.</u>	An easily accessible fire blanket must be provided in all areas where an open flame is
1149		used.
1150	_	
1151	D.	Where there is potential for exposure to skin with toxic, infectious or irritating
1152		materials, a hand washing facility shall be available.
1153	_	
1154	<u>E.</u>	An easily accessible operational eye wash fountain that meets the ANSI Z358.1-2009
1155		Standard must be provided in each laboratory or other areas where corrosives or
1156		irritating materials are used. The eye wash fountain shall be maintained clean,
1157		permanently plumbed, and provide a hands-free continuous flow of water capable of
1158		flushing both eyes simultaneously. The use of portable eye wash bottles as substitutes
1159		is not permitted. Easily accessible means no more than 55 feet from the storage or
1160		use of corrosive or irritating materials so that it can be reached with impaired vision
1161		within 10 seconds or less. Eye wash fountains shall be tested annually with
1162		documentation available upon request.
1163		
1164	<u>F.</u>	An easily accessible operational safety shower that meets the ANSI Z358.1-2009,
1165		capable of providing continuous flowing water, shall be provided for each laboratory
1166		or other areas where corrosive or irritating chemicals are used. The safety shower can

1167		be centrally located so as to serve more than one area provided that it is within 55
1167		feet from the storage or use of corrosive or irritating materials and can be reached
1169		with impaired vision within 10 seconds or less. The safety shower shall be tested
1170		annually with documentation available upon request.
1171		annually men documentation available apon request.
1172	G.	A master gas control valve (MGCV), is required on gas supply lines to vocational areas
1172	<u>u.</u>	and science laboratories. The MGCV shall stop the flow of gas to all appliances/
1174		equipment located in the room and must function as a manually operated emergency
1175		gas shut-off. One MGCV shall be provided for each room and made easily accessible.
1176		Electric shut-off switches shall be provided in areas where power equipment is used.
1177		Master gas valves and electric shut-off switches shall be labeled for high visibility and
1178		tested annually with documentation available upon request.
1179		<u>cested annually men documentation available apon request.</u>
1180	Н.	Fire extinguishers are required in accordance with the 2011 National Fire Protection
1181		Association Code 45 Fire Protection for Laboratories Using Chemicals. Dry chemical
1182		Class ABC extinguishers are recommended for laboratory use. If combustible metals
1183		(e.g., Mg, Na, K) are present, laboratories must have a class D extinguisher or those
1184		agents shown to be effective in controlling combustible metal fires as well.
1185		
1186	Ι.	All emergency and safety equipment shall be tested annually with documentation
1187		available upon request and labeled for high visibility.
1188		
1189	J.	Radioactive materials and equipment shall conform to the Colorado Department of
1190		Public Health and Environment Rules and Regulations Pertaining to Radiation Control,
1191		<u>6 CCR 1007-1.</u>
1192		
1193	<u>6.12.3</u>	Storage Provisions
1194		
1195		
1196	Α.	8-102 Toxic or hazardous materials shall be stored in approved safe and
1197		appropriate laboratory containers, separated by reactive group and stored in a
1198		ventilated, locked, fire-resistant area or cabinet. The ventilation requirement of this
1199		section may not be required where minimum quantities of such materials are stored
1200		for daily use. <u>Toxic or hazardous materials must be stored according to the chemical</u>
1201		manufacturer's storage temperature requirements at all times including during school
1202		holidays and breaks.
1203	D	8 402 October 2 Control of the state in a term of the state of the sta
1204	В.	8-103 Original cContainers of chemicals, poisons, corrosive substances and
1205		flammable liquids shall be clearly labeled with the name, and original quantity of the
1206		material and the date the material entered the school. <u>Secondary containers and/or</u>
1207		prepared solutions intended for storage shall be labeled with chemical name and, if
1208		applicable, the formula, date of preparation, disposal date, and concentration.
1209	C.	Prohibited chemicals are those chemicals that pose an inherent, immediate and
1210	L.	
1211		potentially life threatening risk, injury or impairment due to toxicity or other chemical properties to the students, staff or other occupants of the school. These chemicals
1212 1213		are prohibited from use and/or storage at the school and the sSchools shall not is
1213		prohibited from purchaseing or accepting donations of such-prohibited chemicals.
1214		These chemicals are prohibited from use and/or storage at the school unless a
1215		variance from this regulation is requested in writing by the school and approved by
1210		Department. If prohibited chemicals are found in the school, they shall be identified
121/		beparamental in promoted enemicato are round in the school, they shall be identified

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1218		on the container label as "not for use" or "waste" and segregated from the chemical
1219		inventory. Unless a variance has been granted by the Department, all schools must
1220		dispose of prohibited chemicals by January 1, 2017. Prohibited chemicals are listed in
1221		Appendix A to this regulation.
1222		
1223	D.	Restricted chemicals shall be removed from the schools if alternatives can be used.
1224		Restricted chemicals are those chemicals that are restricted by use, and/or quantities.
1225		-If restricted chemicals are present at the school, each chemical shall be identified in
1226		the school's chemical inventory and addressed in the school's written
1227		emergencychemical hygiene plan as addressed required by in sections <u>Sections 8-112</u>
1228		and 8-1136.12.1(E)(F) of these regulations. Containers of restricted chemicals shall be
1229		labeled as such. Restricted chemicals are listed in Appendix B to this regulation. The
1230		amount of restricted chemical shall be no more than what can be used in one school
1231		year. Restricted chemicals are listed in Appendix B of this regulation.
1232		
1233	A	Restricted chemicals (demonstration use only) are a subclass in the restricted
1234		cal lists that are limited to instructor demonstration. Students may not participate in
1235		ndling or preparation of restricted chemicals as part of a demonstration. If restricted
1236		cals (demonstration use only) are present at the school, each chemical shall be
1237		sed in the school's written emergency plan as addressed in sections 8-112 and 8-113 of
1238	these I	regulations. Demonstration only chemicals are listed in Appendix B2 to this regulation.
1239	_	
1240	E.	8-107 Exposure to noise, or toxic liquids, dusts, gases, mists, fumes or vapors
1241	_	or other hazards shall be controlled to avoid health hazards.
1242	Ę	– . All share the second second second have developed by the second second second second second second second sec
1243	<u>G.Е.</u>	<u>8-108</u> All chemicals, <u>compounds</u> , solvents , and hazardous substances shall be
1244		inventoried by the school a minimum of once a year. The inventory shall include the
1245		name of the compound, the amount, and the <u>date year</u> it entered the school. If
1246 1247		restricted or prohibited chemicals are present in the school, they shall be designated as such in the chemical inventory. A copy of the inventory shall be kept in the area of
1247		<u>use and on file in a location away from the areas where the aforementioned</u>
1248		materials chemicals are stored. The updated inventory shall be available upon
1249		request.
1250		<u>lequest.</u>
1251	н	8-109 A current material safety data sheet shall be provided for all poisonous,
1252		toxic, or hazardous substances and shall be available for review upon request.
1255	L	
1254	J	-8-110 In the absence of more stringent guidelines the 2000 National Fire
1255	••	Protection Association Code 30 Flammable and Combustible Liquids Code and 2000
1250		National Fire Protection Association Code 45 Fire Protection for Laboratories Using
1258		Chemicals shall be used as guidelines for the proper storage, handling and use of
1259		chemicals in the school.
1260		
1260	K. F.	8-111 Refrigerators used for flammable compounds shall be prominently
1262		marked to indicate they meet the appropriate design requirements for safe storage of
1263		flammable liquids. Food for consumption shall not be stored in refrigerators used for
1264		flammable or any other laboratory related materials. Food and food containers for
1265		experimentation shall be labeled as "not for consumption" and segregated from foods
1266		intended for consumption.
1267		
1268	B.	8-112 A written plan for response to and cleanup of chemical spills shall be

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1269		provided by the school. A copy of the plan shall be kept on file in a location away
120)		from the areas where chemicals are stored.
1270		from the dreas where enclineats are stored.
1272	L	8-113 A written plan that explains the proper storage, handling and disposal
1272	L.	procedures for all poisonous, toxic or hazardous substances shall be on file in each
1273		school in a location away from the areas where these substances are stored and shall
		be available for review upon request.
1275		
1276		
1277		
1278 1279		lephone number and location of the nearest poison control center shall be posted near ephone.
1280	0	
1281	<u>P.G.</u>	<u>8-115</u> The storage, preparation, and consumption of food and drink is
1282		prohibited in any area where there are poisonous, toxic or hazardous substances.
1283		When a student's individual health care plan requires food to be readily available, it
1284		shall be allowed in these areas as long as it is protected from contamination and not
1285		available for general consumption.
1286	0.11	9 110 Cleanware shall be preperly constructed and desire ad for its intended
1287	Q.<u>Н.</u>	_8-116 Glassware shall be properly constructed and designed for its intended
1288		use and shall be handled and stored in a safe manner.
1289	٨	-8-117 Aspirators or suction bulbs shall be used for drawing liquids into pipets.
1290	A.——	-8-117 Aspirators or suction bulbs shall be used for drawing liquids into pipets. -The mouth must not be used directly on the pipets.
1291		- The mouth must not be used directly on the pipets.
1292	Р	9 119 Eve protection, that most the American National Standards Institute
1293	R. ——	-8-118 Eye protection, that meet the American National Standards Institute
1294		1989 Z87.1Standard - Practice for Occupational/Education Eye and Face Protection must be worn by all students participating in, observing, or in close proximity to any
1295		
1296		experiment or activity which could result in eye injury. Eye protection glasses, goggles, face shields, and similar eye protection devices shall be issued clean and
1297		
1298 1299		properly sanitized and stored in a protected place.
1299	B.	8-119 An easily accessible fire blanket must be provided in each laboratory or
1300	ь.	other area where an open flame is used.
1301		other area where an open name is used.
1302	c	8-120 Where there is exposure to skin contamination with poisonous,
1303	c .	infectious or irritating materials, a hand washing facility shall be available.
1304		incectous of influences, a hand washing factory shall be available.
1305	D.	-8-121 An easily accessible operational eye wash fountain must be provided in
1307	D .	each laboratory or other areas where corrosives or irritating chemicals are used. The
1307		eye wash fountain shall be clean and must be tested annually. The use of portable
1309		eye wash bottles as substitutes is not permitted.
1310		eye mush bottles us substitutes is not permitted.
1310	E.	8-122 An easily accessible operational safety shower, capable of providing
1312		continuous flowing water, shall be provided for each laboratory or other areas where
1312		corrosive or irritating chemicals are used. The safety shower can be centrally located
1313		so as to serve more than one area if doors are not locked, and convenient prompt
1315		access is available.
1316		
1317	E.	-8-123 Master gas valves and electric shut-off switches shall be provided for
1318		each laboratory or areas where power equipment is used.
1319		each aboratory of areas micre power equipment is asea.
1317		

1320	G.	8-124 All emergency and safety equipment including master valves, shut off switches,
1321		eye wash fountains, safety showers, fire extinguishers (appropriate for the intended
1322		use), and fire-alarm pull stations and other similar equipment shall be tested at least
1323		once annually and labeled for high visibility
1324		
1325	H	8-125 Use of X-ray machines and other electronic devices producing ionizing or
1326		non-ionizing radiation and radioactive materials and equipment shall conform to the
1320		Colorado Department of Public Health and Environment Rules and Regulations
1328		Pertaining to Radiation Control, 6 CCR § 1007-1.
1329		
1330	<u>6.12.4</u>	Ventilation
1331		
1332	Α.	8-201 All areas shall be adequately ventilated through mechanical means so
1333		that exposures to hazardous or toxic materials are maintained to a safe level.
1334		Additional guidance in determining safe levels is provided in the American Conference
1335		of Governmental Industrial Hygienists, Threshold Limit Values and Biological
1336		Exposures Indices. In the absence of more stringent guidelines the American
1337		Conference of Governmental Industrial Hygienists 1989 14Threshold Limit Values and
1338		Biological Exposures Indices shall be used as a guideline to determine safe levels.
1339		
1340	В.	8-202 Local exhaust ventilation shall be provided so that contaminants are
1341		exhausted away from the student and not through the breathing zone.
1342		
1343	С.	8-203 Sufficient fume hood capacity ventilation shall be provided and shall be
1344	с.	used for any activity producing hazardous toxic or noxious gases, mists, vapors, or
1345		dusts.
1346		
1347		1. a. Hoods must exhaust directly to the outside and shall be located a
1347		minimum of 10 feet from any building air-intakes or building openings.
		minimum of to reet from any building an -intakes of building openings.
1349		2 b Discharges of any reportable air pollutant from any exhaust based must
1350		2. b. Discharges of any reportable air pollutant from any exhaust hood must
1351		meet applicable Colorado Air Pollution Standards.
1352		
1353		2.3. Spray booths and finishing rooms where flammable or combustible materials
1354		are used shall be constructed in accordance with 29 CFR 1910.107.
1355		
1356		3. <u>4.</u> <u>c.</u> A minimum face velocity of 100 feet/ <u>per</u> minute (fpm) and a maximum
1357		of 120 fpm for general laboratory hoods must be provided.
1358		
1359		4.5. Air flow of fume hoods must be tested at least once a school yearannually with
1360		documentation available upon request.
1361		
1362	D.	Operational carbon monoxide alarms shall be installed in areas where fossil fuel-fired
1363		heaters and appliances are used such as in boiler rooms and kitchens. Maintenance and
1364		installation of carbon monoxide detectors should comply with manufacturer's
1365		instructions. Carbon monoxide alarms must be tested at least annually with
1366		documentation available upon request. Carbon monoxide detectors that are only
1367		battery-powered should be tested monthly and the batteries should be replaced at
1368		least annually.
1369		
1370	Ε.	A current boiler inspection certificate shall be posted and available upon request.
	<u></u> .	rear one borter inspection continuate share be posted and aranapic apoin request.

1371		
1372	6.13	Health Service
1373		-
1374	Α.	Each school must contract with a registered nurse to provide oversight for student
1375		health care, including training and supervision of unlicensed school staff to administer
1376		medication and carry out medical orders for students with special health care needs.
1377		
1378	<u>B.</u>	Children in care shall be immunized as required by 6 CCR 1009-2, Rules Pertaining to
1379		the Infant Immunization Program, the Vaccines for Children Program, and the
1380		Immunization of Students Attending School. The official Certificate of Immunization,
1381		official Exemption form or written documentation of the student being In-Process shall
1382		be on file for each enrolled student. Upon request of state or local health agencies,
1383		schools are responsible for providing records with identifiers removed if the school is
1384		subject to the Family Educational Rights and Privacy Act (FERPA).
1385		0.404
1386	<u>А.С.</u>	_9-101 Basic first aid equipment and medical supplies including: gauze pads
1387		and roller gauze, adhesive tape, cold pack, plastic bags, disposable gloves, band-aids, hand cleaner, small flashlight and extra batteries, scissors, tweezers, blanket and a
1388 1389		triangular bandage shall be provided and kept conveniently available for emergency
1389		use.
1390		use.
1392		1. The administration of syrup of ipecac and/or activated charcoal is prohibited
1392		without first consulting with a licensed physician or a poison control center.
1394		
1395		2.1bFirst aid supplies and equipment with an expiration date
1396		shall be discarded and replaced once that date has past.
1397		
1398	<u>D.</u>	9-102 At all times during the school day and during school sponsored use
1399		periodsevents, including those off-site, at least one staff member shall be on duty in
1400		each school who has a current certification from <u>a nationally recognized course in</u>
1401		Standard First Aid and Cardio Pulmonary Resuscitation (CPR) certification course. the
1402		American Red Cross Standard First Aid Course or an equivalent. A list of persons
1403		currently certified, as described above, shall be maintained in each school office.
1404		
1405	<u>в.</u> Е	Schools that acquire Automated External Defibrillators (AEDs) shall ensure public
1406		health and safety in accordance with C.R.S. 13-21-108.1.
1407	<u>с</u> г	0.402 Concrete reame or areas shall be evailable in every school for
1408	C.<u>F.</u>	<u>_9-103</u> Separate rooms or areas shall be available in every school for
1409 1410		emergency use in providing care for persons who are ill, infested with parasites, or suspected of having communicable diseases.
1410		suspected of having communicable diseases.
1411	G.	9-104 Every emergency health care room or area must have an easily
1412	<u>u.</u>	accessible restroom within 50 feet and shall be provided with at least one cot for each
1414		four hundred (400) students or part thereof. Each cot and pillow shall have an easily
1415		cleanable, non-absorbent surface or cover which is sanitized after each use. A sink
1416		with hot running water shall be located in the health care room or area.
1417		
1418	D.<u>Н.</u>	_ 9-105 Medication administered by <u>trained</u> school personnel <u>with oversight by a</u>
1419		registered nurse shall be inaccessible to children and shall be stored in the original
1420		container in a controlled area separated from food, cleaning compounds and other
1421		toxic substances Emergency medications such as epinephrine shall be inaccessible to
•		

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1422		students, immediately available to trained school personnel and not in a locked
1423		cabinet. If refrigeration is required, the medication shall be stored:
1424		
1425		1. a. In a separate refrigerator maintained for that purpose only, or
1426		
1427		2. b. In an impervious secondary container in a designated area of a food
1428		storage refrigerator, separated from food and inaccessible to children.
1429		
1430	<u>Е.</u> І	_ 9-106 Telephone or radio communications shall be provided and kept available
1431		in each school for emergency purposes.
1432		
1433	F. J.	_ 9-107 A written plan with common procedures for handling emergency
1434		medical services with common procedures for handling medical emergencies shall be
1435		kept in each schooland made available for review. A current list of emergency
1436		services with telephone numbers, including the address and telephone number of the
1437		school, -shall be posted in one or more prominent place(s) in each school.
1438	_	
1439	<u>G.К.</u>	<u>9-108</u> A written <u>all hazards</u> plan for handling internal and external natural or
1440		man made disasters and mass casualty events, such as natural disasters and large
1441		outbreaks, shall be prepared by each school. A copy of this plan shall be maintained
1442		in each school. Disaster training and review will be conducted each year at each
1443		school. Principals, school personnel and students will periodically review and test
1444		each disaster plan.
1445		
1446	<mark>₩.</mark> L.	Oxygen use in school by students should be in a non-flammable environment and there
1447		should be signage posted in the school that oxygen is in use.
1448		An alter the second stand by the second standard standard by the second standard standard standard standard sta
1449	<u>⊦.M.</u>	Medications acquired by the school or abandoned by parents shall be disposed of in
1450		accordance with 6 CCR 1007-2, Part 1, Regulations Pertaining to Solid Waste Sites and
1451		Facilities and 6 CCR 1007-3, Parts 260-268, and Parts 99 and 100.
1452		

APPENDICES

Appendix A

Prohibited Chemicals

(Substances With Greater Hazardous Nature Than Educational Utility)

(Substances With Greater Hazardous Nature Than Educational Utility)

- A. Chemicals used in the laboratory may be hazardous because of the following:
 - 1. Safety risks (i.e., highly flammable or explosive material)
 - 2. Acute and chronic health hazards
 - 3. Environmental harm
 - 4. Impairment of indoor air quality
- B. Assessment of the chemicals in this list indicates that their hazardous nature is greater than their potential usefulness in many school programs. Evaluation included physical hazards (i.e., flammability, explosive propensity, reactivity, corrosivity) and health hazards (i.e., toxicity, carcinogenicity).
- C. This following list of chemicals was generated from the Manual of Safety and Health Hazards in the School Science Laboratory published by U.S. Department of Health and Human Services, National Institute for Occupational Safety and Health [1984].
- D. Carcinogenic substances were identified from the *Report on Carcinogens* (10th Edition) generated by the National Toxicology Program (2002).

<u>Chemical</u>	CAS Number	<u>Hazard</u>
Acrylonitrile	<u>107-13-1</u>	Flammable (NFPA = 3), reasonably anticipated human carcinogen
Ammonium chromate	<u>7788-98-9</u>	<u>Oxidizer, known human</u> <u>carcinogen</u>
<u>Aniline</u>	<u>62-53-3</u>	Combustible, may be fatal if inhaled, ingested or absorbed through the skin
Aniline hydrochloride	<u>142-04-1</u>	May be fatal if inhaled, ingested, or absorbed through the skin
Antimony trichloride	<u>10025-91-9</u>	Corrosive
Arsenic and its compounds	N/A	Known human carcinogen
Asbestos	<u>1332-21-4</u>	Known human carcinogen
Ascarite II	<u>N/A</u>	Corrosive, may be fatal if ingested
Benzene	<u>71-43-2</u>	<u>Flammable (NFPA = 3), known</u> human carcinogen, mutagen
Benzoyl peroxide	<u>94-36-0</u>	Flammable (NFPA = 3), explosive, oxidizer
Calcium cyanide	<u>592-01-8</u>	May be fatal if inhaled or ingested

<u>Chemical</u>	CAS Number	<u>Hazard</u>
Carbon disulfide	<u>75-15-0</u>	Flammable (NFPA = 4), acute cns toxicity and peripheral neurotoxicity
Carbon tetrachloride	<u>56-23-5</u>	<u>May be fatal if inhaled or</u> <u>ingested, reasonably anticipated</u> <u>human carcinogen</u>
Chloral hydrate	<u>302-17-0</u>	Controlled barbiturate
<u>Chlorine</u>	<u>7782-50-5</u>	Oxidizer, corrosive, may be fatal if inhaled
<u>Chloroform</u>	<u>67-66-3</u>	Reasonably anticipated human carcinogen
<u>Chloropromazine</u>	<u>50-53-3</u>	Controlled substance
<u>Chromium hexavalent</u> <u>compounds</u>	<u>N/A</u>	Known human carcinogen
Chromium trioxide	<u>1333-82-0</u>	Oxidizer, Corrosive, known human carcinogen
<u>Colchicine</u>	<u>64-86-8</u>	May be fatal if ingested, mutagen
<u>p-Dichlorobenzene</u>	<u>106-46-7</u>	Combustible, reasonably anticipated human carcin
<u>Dimethylaniline</u>	<u>121-69-7</u>	May be fatal if inhaled, ingested, or absorbed through the skin
<u>p-Dioxane</u>	<u>123-91-1</u>	Flammable (NFPA = 3), forms peroxides (Group 2), reasonably anticipated human carcinogen
<u>Ethylene dichloride (1,2-</u> <u>Dichloroethane)</u>	<u>107-06-2</u>	Flammable (NFPA = 3), reasonably anticipated human carcinogen, mutagen
Ethylene oxide	<u>75-21-8</u>	Flammable (NFPA = 4), explosive (NPFA = 3), may be fatal if inhaled or absorbed through the skin, known human carcinogen
Gunpowder	<u>N/A</u>	Explosive

<u>Chemical</u>	CAS Number	<u>Hazard</u>
<u>Hexachlorophene</u>	<u>70-30-4</u>	May be fatal if inhaled, ingested or absorbed through the skin, possible teratogen
Hydrobromic acid	<u>10035-10-6</u>	<u>Corrosive, may be fatal if inhaled or</u> <u>ingested</u>
Hydrofluoric acid	<u>7664-39-3</u>	Corrosive, may be fatal if inhaled or ingested (liquid and vapor can cause severe burns not always immediately painful or visible but possibly fatal)
Hydrogen	<u>1333-74-0</u>	Flammable (NFPA = 4)
Hydriodic acid	<u>10034-85-2</u>	Corrosive, may be fatal if inhaled or ingested
Lead arsenate	7784-40-9	Known human carcinogen, teratogen
Lead carbonate	<u>1319-46-6</u>	<u>May be fatal if inhaled or ingested,</u> <u>neurotoxic</u>
Lead (VI) chromate	<u>7758-97-6</u>	May be fatal if inhaled or ingested, known human carcinogen
Lithium, metal	<u>7439-93-2</u>	Combustible, water reactive
Lithium nitrate	<u>7790-69-4</u>	<u>Oxidizer</u>
<u>Magnesium, metal</u> (powder)	<u>7439-95-4</u>	May ignite spontaneously on contact with water or damp materials
Mercury	<u>7439-97-6</u>	Corrosive, may be fatal if inhaled or ingested
Mercuric chloride	<u>7487-94-7</u>	May be fatal if inhaled, teratogen
<u>Methyl iodide</u> (iodomethane)	<u>74-88-4</u>	May be fatal if inhaled, ingested or absorbed through the skin, potential carcinogen (NIOSH)
Methyl methacrylate	<u>80-62-6</u>	Flammable (NFPA = 3), explosive (vapor)
Methyl orange	<u>547-58-0</u>	Possible mutagen
Methyl red	<u>493-52-7</u>	Possible mutagen

<u>Chemical</u>	CAS Number	Hazard
<u>Nickel, metal</u>	<u>7440-02-0</u>	Reasonably anticipated human carcinogen, mutagen
Nickel oxide	<u>1314-06-3</u>	Reasonably anticipated human carcinogen, mutagen
<u>Nicotine</u>	<u>45-11-5</u>	May be fatal if inhaled, ingested, or absorbed through the skin
Osmium tetroxide	<u>20816-12-0</u>	May be fatal if inhaled or ingested
<u>Paris green</u>	<u>12002-03-8</u>	<u>May be fatal if inhaled, ingested or</u> absorbed through the skin, known human carcinogen
<u>Phenol</u>	<u>108-95-2</u>	<u>Combustible (liquid and vapor),</u> <u>corrosive, may be fatal if inhaled,</u> <u>ingested or absorbed through the</u> <u>skin</u>
Phosphorus pentoxide	<u>1314-56-3</u>	Water reactive, corrosive
Phosphorous, red, white	<u>7723-14-0</u>	May ignite spontaneously in air
Phthalic anhydride	<u>85-44-9</u>	Combustible/finely dispersed particles form explosive mixtures in air, corrosive
Potassium, metal	<u>7440-09-7</u>	Flammable (nfpa = 3), water reactive, forms peroxides
Potassium oxalate	<u>583-52-8</u>	Corrosive, may be fatal if ingested
Potassium sulfide	<u>1312-73-8</u>	Spontaneously combustible, explosive in dust or powder form, corrosive
<u>Pyridine</u>	<u>110-86-1</u>	Flammable (nfpa = 3), possible mutagen
<u>Selenium</u>	<u>7782-49-2</u>	Severe irritant
<u>Silver cyanide</u>	<u>506-64-9</u>	May be fatal if inhaled, ingested or absorbed through the skin
<u>Silver nitrate</u>	<u>7761-88-8</u>	Oxidizer, corrosive, may be fatal if ingested
<u>Silver oxide</u>	<u>20667-12-3</u>	Oxidizer

<u>Chemical</u>	CAS Number	<u>Hazard</u>
Sodium arsenate	<u>7778-43-0</u>	<u>May be fatal if inhaled or ingested,</u> <u>known human carcinogen</u>
Sodium arsenite	<u>7784-46-5</u>	Known human carcinogen, teratogen
Sodium azide	<u>26628-22-8</u>	Explosive, may be fatal if ingested or absorbed through the skin
Sodium chromate	<u>7775-11-3</u>	Oxidizer, corrosive, known human carcinogen
Sodium cyanide	<u>143-33-9</u>	May be fatal if inhaled, ingested or absorbed through the skin
Sodium dichromate	<u>10588-01-9</u>	Oxidizer, corrosive, may be fatal if ingested, known human carcinogen
Sodium nitrite	<u>7632-00-0</u>	Oxidizer
Sodium sulfide	<u>1313-82-2</u>	Corrosive, may be fatal if inhaled or ingested
Sodium thiocyanide	<u>540-72-7</u>	Contact with acid liberates very toxic gas
<u>Stannic chloride</u> (anhydrous)	<u>7646-78-8</u>	Corrosive, hydrochloric acid liberated upon contact with moisture and heat
<u>Stearic acid</u>	<u>57-11-4</u>	May form combustible dust concentration in the air
<u>Strontium</u>	7440-24-6	Water reactive
Strontium nitrate	<u>10042-76-9</u>	Oxidizer
Sudan IV	<u>85-83-6</u>	Irritant, toxic properties have not been thoroughly evaluated
Sulfuric acid, fuming	<u>8014-95-7</u>	Corrosive, may be fatal if ingested
Tannic acid	<u>1401-55-4</u>	Irritant
Tetrabromoethane	<u>79-27-6</u>	May be fatal if inhaled, ingested or absorbed through the skin
Thioacetamide	<u>62-55-5</u>	Reasonably anticipated human carcinogen

<u>Chemical</u>	CAS Number	<u>Hazard</u>
<u>Thiourea</u>	<u>62-56-6</u>	Reasonably anticipated human carcinogen
Titanium trichloride	<u>7705-07-9</u>	Water reactive, corrosive
Titanium tetrachloride	<u>7550-45-0</u>	<u>Water reactive, corrosive, may be</u> <u>fatal if inhaled</u>
<u>o-Toluidine</u>	<u>95-53-4</u> <u>Reasonably anticipated huncarcinogen, mutagen</u>	
<u>Uranium</u>	<u>7440-61-1</u>	Radioactive material
<u>Uranyl acetate</u>	<u>541-09-3</u>	Radioactive material
<u>Urethane</u>	<u>51-79-6</u>	Combustible, reasonably anticipated human carcinogen
<u>Wood's metal</u>	<u>8049-22-7</u>	May be fatal if inhaled or ingested, known human carcinogen (cadmium), neurotoxic

Appendix B

Restricted Chemicals

(Substances With a Hazardous Nature, but May Have Potential Educational Utility)

Document 9 RQ Appendix B - Restricted Chemicals

Substances With a Hazardous Nature, but May Have

Potential Educational Utility

- A. These chemicals should be removed from the schools if alternatives can be used. For those that must be retained, amounts should be kept to a minimum. These are appropriate for advanced-level High School classes only.
- B. This following list was generated from the Manual of Safety and Health Hazards in the School Science Laboratory published by U.S. Department of Health and Human Services, National Institute for Occupational Safety and Health [1984].
- C. Carcinogenic substances were identified from the *Report on Carcinogens* (10th Edition) generated by the National Toxicology Program (2002).

<u>Chemical</u>	CAS Number	<u>Hazard</u>
Acetamide	<u>60-35-5</u>	Combustible solid
Aluminum chloride	<u>7446-70-0</u>	Water reactive, corrosive
Ammonium bichromate	<u>7789-09-5</u>	Oxidizer, corrosive, known human carcinogen
Ammonium oxalate	<u>1113-38-8</u>	<u>May be fatal if inhaled or</u> ingested
Ammonium vanadate	<u>7803-55-6</u>	May be fatal if inhaled or
Antimony	<u>7440-36-0</u>	May be fatal if inhaled, irritant
Antimony oxide	<u>1309-64-4</u>	<u>Irritant</u>
Antimony potassium tartrate	<u>11071-15-1</u>	<u>Irritant</u>
Barium chloride	<u>10361-37-2</u>	May be fatal if ingested, irritant
Benzone (phenylbutazone)	<u>50-33-9</u>	<u>Irritant</u>
Beryllium carbonate	<u>66104-24-3</u>	<u>Irritant</u>
Bromine	<u>7726-95-6</u>	Oxidizer, corrosive, may be fatal if inhaled or ingested
Cadmium and cadmium compounds	<u>N/A</u>	Known human carcinogen
<u>Carmine</u>	<u>860-22-0</u>	Irritant, burning may produce carbon monoxide, carbon dioxide, sulfur oxides, and nitrogen oxides.
<u>Catechol</u>	<u>120-80-9</u>	Corrosive
Chromic acid	<u>7738-94-5</u>	Oxidizer, known human carcinogen
Chromium acetate	<u>1066-30-4</u>	<u>Irritant</u>

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<u>Chemical</u>	CAS Number	<u>Hazard</u>
<u>Cobalt, metal</u>	<u>7440-48-4</u>	Possible human carcinogen (IARC, Group 2B)
Cobalt nitrate	<u>10141-05-6</u>	Oxidizer, irritant
<u>Cyclohexane</u>	<u>110-82-7</u>	Flammable (NFPA = 3)
<u>Cyclohexene</u>	<u>110-83-8</u>	<u>Flammable (nfpa = 3), corrosive,</u> <u>forms peroxides</u>
<u>Dichloroindophenol sodium</u> <u>salt</u>	<u>620-45-1</u>	<u>Irritant</u>
2,4-Dinitrophenol	<u>51-28-5</u>	<u>Irritant</u>
Ferrous Sulfate	7720-78-7	Irritant
<u>Formaldehyde (formalin)</u>	<u>50-00-0</u>	Flammable (NFPA = 3), reasonably anticipated human carcinogen
Fuchsin (acid/basic)	<u>3244-88-0/632-99-5</u>	<u>Irritant</u>
Gasoline	<u>8006-61-9</u>	Flammable (NFPA = 3)
<u>Hematoxylin</u>	<u>517-28-2</u>	<u>Irritant</u>
Hydrogen sulfide	<u>7783-06-4</u>	Corrosive
<u>Hydroquinone</u>	<u>123-31-9</u>	May be fatal if ingested
<u>Isoamyl alcohol (isopentyl alcohol)</u>	<u>123-51-3</u>	Irritant, combustible liquid and vapor
Isobutyl alcohol	<u>78-83-1</u>	Flammable (NFPA = 3)
Magnesium chlorate	<u>10326-21-3</u>	<u>Irritant</u>
Methyl ethyl ketone	<u>78-93-3</u>	Irritant, flammable (NFPA = 3)
Methyl oleate	<u>112-62-9</u>	Toxic properties not investigated
Nickel carbonate	<u>3333-67-3</u>	Reasonably anticipated human carcinogen
Nickelous acetate	<u>373-02-4</u>	Reasonably anticipated human carcinogen
Paradichlorobenzene	<u>106-46-7</u>	Irritant
Pentane	<u>109-66-0</u>	Irritant, flammable (NFPA = 4)
Petroleum ether	<u>8032-32-4</u>	Flammable (NFPA = 4)
<u>1-Phenyl-2-Thiourea</u> (Phenylthiocarbamide)	<u>103-85-5</u>	May be fatal if inhaled or ingested

Document 9 RQ Appendix B - Restricted Chemicals

<u>Chemical</u>	CAS Number	<u>Hazard</u>
Potassium chlorate	<u>3811-04-9.</u>	<u>Oxidizer</u>
Potassium chromate	<u>7789-00-6</u>	Oxidizer, known human carcinogen
Potassium periodate	<u>7790-21-8</u>	<u>Oxidizer</u>
Potassium permanganate	<u>7722-64-7</u>	Oxidizer, corrosive
Salol (phenyl salicylate)	<u>118-55-8</u>	Irritant
Sodium bromate	<u>7789-38-0</u>	Oxidizer
Sodium chlorate	<u>7775-09-9</u>	Oxidizer
Sodium fluoride	<u>7681-49-4</u>	May be fatal if inhaled or ingested
<u>Sodium oxalate</u>	<u>62-76-0</u>	<u>Corrosive, may be fatal if</u> <u>ingested</u>
Sodium nitrate	<u>7631-99-4</u>	Oxidizer, irritant
Sodium silicofluoride	<u>16893-85-9</u>	Toxic
<u>Sudan III</u>	<u>85-86-9</u>	Decomposes to oxides of nitrogen
<u>Sulfamethazine</u>	<u>57-68-1</u>	Irritant
Toluene	<u>108-88-3</u>	Flammable (NFPA = 3), irritant, may be fatal if ingested
Trichloroethylene	<u>79-01-6</u>	Reasonably anticipated human carcinogen
<u>Urethane</u>	<u>51-79-6</u>	Combustible, reasonably anticipated human carcinogen
<u>Xylenes</u>	<u>1330-20-7</u>	Flammable (NFPA = 3), irritant, may be fatal if ingested

FINDINGS OF EMERGENCY AND JUSTIFICATION FOR EMERGENCY ADOPTION

REVISIONS TO THE RULES AND REGULATIONS GOVERNING SCHOOLS IN THE STATE OF COLORADO

April 4, 2003 Rulemaking

Emergency adoption of these rule changes is imperatively necessary to comply with state statute and regulations and for the preservation of public health, safety or welfare. Compliance with the requirements of C.R.S. § 24-4-103 would be contrary to public interest. Emergency adoption of these rule changes is to comply with the requirements of C.R.S. § 24-4-103 for materials incorporated by reference based on the review conducted by the Colorado General Assembly, Office of Legislative Legal Services. The purpose of the emergency adoption is to assure that the sections 8-110, 8-118, and 8-201 of the Rules and Regulations Governing Schools in the State of Colorado do not expire on May 15, 2003 under the terms of Senate Bill 03-88. Failure to have the sections within the governing regulation would remove requirements for the proper storage of hazardous and toxic chemicals the use of appropriate eye protection and ventilation systems in laboratories and vocational areas in schools.

			NFPA	NFPA	NFPA	NFPA
Name	Formula	CAS #	Reactive	Health	Flammable	-Special
2-Butanol (Sec-Butyl Alcohol)	C2H5CH(OH)CH	378-92-2	0	1	3	
Acetal			0	2	3	
Acetaldehyde	CH3CHO5	75-07-0	2	3	4	
Acetyl Chloride	CH3COCI	75-36-5	2	3	3	
Acetyl Nitrate						
Acrolein	CH2CHCHO	<u> 107-02-8 </u>	3	4		
Acrylic Acid	H2CCHCO2H	79-10-7	2	2	<u> </u>	
Acrylonitrile	CH2CHCN	107-13-1	2	4	3	
Alcohols (Allylic, Benzylic)						
Alkly-Substituted Cycloaliphatics						
Aluminum Hydrophosphide						
Aluminum Phosphide	AIP	20859-73-	2	4	4	
Amatol						
Ammonal						
Ammonium Bromate						
Ammonium Chlorate						
Ammonium Hexanitrocobaltate						
Ammonium Nitrite						
Ammonium Perchlorate	NH4ClO4	7790-98-9	4	1	0	<u> </u>
Ammonium Periodate						
Ammonium Permanganate			3	0	0	<u>OX</u>
Ammonium Tetraperoxychromate						

			NFPA	NFPA	NFPA	NFPA
Name	Formula	CAS #	Reactive	Health	Flammable	Special
Antimony Compounds						
Arsenic And Arsenic Compo	unds					
Azides						
Azidocarbonyl Guanidine						
Barium	Ва	2	2	1		W
Barium Chlorate	Ba(CIO3)2*H2O	13477-00-	1	2	0	OX
Barium Oxide (Anhydrous)	BaO	1304-28-5	2	3	0	
Barium Peroxide	BaO2	1304-29-6	0	1	0	<u> </u>
Benzene	C6H6	71-43-2	00	2	3	
Benzene Diazonium Chloride						
Benzotriazole	C6H5N3	95 -14-7	0	2	1	
Benzoyl Peroxide	(C6H5CO)2O2	94-36-0	4	1	4	<u> </u>
Benzyl Alcohol	C6H5CH2OH	100-51-6	0	2	1	
Bismuth Nitrate	Bi(NO3)3*5H2O	10035-06-		1	0	<u> </u>
Borane,Boranes, Diboranes						
Boron Tribromide			2	3	0	W
Boron Trifluoride			11	4	0	
Bromine Pentafluoride	Brf5	7789-30-2	3	4	0	W,O
Bromine Trifluoride			3	4	0	W,O
Butadiene		106-99-0	0	2	4	
Butenetroil Trinitrate						
Cadmium and Cadmium Compounds						
Calcium Nitrate, Anhydrous	Ca(NO3)2	10124-37-	3	1	0	— ОХ
Calcium Permanganate	Ca(MnO4)2					
Carbon Tetrachloride		56-23-5	0	3	0	
Chloral Hydrate	CCI3CH(OH)2					

Name	Formula	CAS #	NFPA Roactivo	NFPA Hoalth	NFPA Flammable	NFPA Specie
Chlorine	Cl2	7782-50-5	0	4		OX
			Ŭ			
Chlorine Dioxide	CIO2	10049-04-				OX
Chlorine Trifluoride			3	4	0	
Chlorine Trioxide						
Chloroacetylene						
Chloroform	CHCI3	67-66-3	0		2	
Chloropicrin	CCI3NO2	76-06-2	3	4	0	
Chloroprene						
Chlorotrifluoroethylene						
Chromium (IC) Chloride	CrCl3*6H2O	10060-12-	2	1	0	
Chromium (Powder)	Cr	7440-47-3	1	2	1	
Chromyl Chloride	GrO2Cl2	14977-61-	2	3	0	
Cobalt (Powder)	Co	7440-48-4				
Colchicine	C22H25NO6	64-86-8	0	4	1	
Copper Acetylide						
Cumene	C6H5CH(CH3)2	98-82-8	1	2	3	
Cycloheptanone	C7H12O	502-42-1	2	3		
Cyclohexanol	C6H11OH	108-93-0	1	2	2	
Cyclopentene	C5H8	142-29-0	1	1	3	
Diacetylene						
Diazidoethane						
Diazodinitrophenol						
Diazomethane	CH2N2	334-88-3				
Dicyclopentadiene	C10H12	77-73-6	1	1		
Diisopropyl Ether		108-20-3	1	2	3	
Dinitrophenol	C6H3OH(NO2)2	<u> </u>				
Dioxane	C4H8O2	<u> </u>	1	2	3	

Dipentaerythritol Hexanitrate

Name	Formula	CAS #	NFPA Reactive	NFPA Hoalth	NFPA Flammable	NFPA Special
Disulfur Dinitride	Formula	 	Reactive	Health	- iaininabic	opeciai
Divinyl Acetylene			3		3	
Divinyl Ether			2	2	4	
Ethyl Ether		<u>60-29-7A</u>	11	1	4	
Ethyl Nitrite			4	3	4	
Ethylene Glycol Dimethyl						
Ether (Glyme) Ethylene Glycol Dinitrate	C2H4N2O6	628-96-6	0	1	2	
Ethylene Oxide	C2H4O	75-21-8	3	3	4	
Formaldehyde	CH2O	50-00-0A	0	3	<u> </u>	
Furan			11	1	4	
Glycol Dinitrate	C2H4N2O6	628-96-6				
Glycol Monolactate Trinitrate	•					
Grignard Reagents (Ether Solvents)						
Guanyl Nitrosaminoguanyl H	lydrazine					
Hexyl Alcohol	CH3(CH2)4CH2OH	111-27-3	0	1	2	
HMX			4	3		
Hydrazoic Acid						
Hydrofluoric Acid	HF	7664-39-3	0	4	0	
Hydrogen Peroxide (>30%)	H2O2	7722-84-1	11	3	0	OX
Hydrogen Peroxide (60%)	H2O2	7722-84-1	3	2	00	OX
Hydrogen Sulfide	H2S	7783-06-4	0	4	4	
Isopropyl Ether			11	11		
Lead Arsenate	Pb3(AsO4)2	7784-40-9	0	2	0	
Lead Dinitride (Azide)	Pb3(N3)2	13424-46-				
Lead Dinitrorescorcinate (St	yphnate)			4	3	4
Lead Dioxide, Brown	PbO2	1309-60-0	3		0	ОХ
Lead Mononitrorescorcinate						
Lithium Nitrate	LiNO3	7790-69-4	3	2	0	OX

Name	Formula	CAS #	NFPA Reactive	NFPA Health	NFPA Flammable	NFPA Special
Lithium Nitride						
Lithium Peroxide						
Magnesium (except Mg ribbon & turnir	Mg ngs)	7439-95-4	2	0	1	W
Magnesium Peroxide						
Mannitol Hexanitrate						
Mercury And Mercury Cor (except in sealed devices)	mpounds)					
Methyl Acetylene	C3H4	74-99-7	2	2	4	
Methyl Cyclopentane	C6H12	96-37-7	0	2	3	
Methyl Isocyanate	CH3NCO	<u>624-83-9</u>	2	4	3	W
Methyl Methacrylate, Monomer	C5H8O2	80-62-6	2	2	3	
M-Trinitrocresol						
Nessler's Reagent (Mercury Compound)	Hg+KI+NaOH	NA26				
Nicotine	C10H14N2	54-11-5	00	4	1	
Nitroglycerin			4	2	2	
Nitrosoguanidine						
Osmic Acid	OsO4	20816-12-	0	4	0	
Osmium Tetroxide	<u> </u>	20816-12-	0	4	0	
O-Toluidine	C7H9N	95-53-4	0	2	3	
Pentaerythritol Tetranitrate (PETN)	e	78-11-5				
Perchloric Acid	HCIO4	7601-90-3	3	3	0	OX
Phenol	C6H6O	108-95-2	0	4	2	
Phenyl Thiourea	C7H8N2S	<u>103-85-5A</u>	00	4	0	
Phosphorus Halides and Oxides						
Phosphorus, Phosphides						

Name	Formula	CAS #	NFPA Reactive		NFPA Flammable	NFPA Special
Phthalic Anhydride, Picrates, Picramide, and Picryl Compo		85-44-9	2	3	1	
Picric Acid	C6H3N3O7	88-89-1	4	3	4	
P-Nitrophenol	NO2C6H4OH	100-02-7	2	3	1	
Polyvinyl Nitrate						
Potassium Amide						
Potassium Cyanide	KCN	151-50-8	0	3	0	
Potassium Dinitrobenzfuroxa	n					
Potassium Nitrite	KNO2	7758-09-0	3	2	0	OX
Potassium Perchlorate	KCIO4	7778-74-7	2	1	0	
Potassium Periodate	-KIO4	7790-21-8	3	2	0	OX
Potassium Peroxide	-KO2	12030-88-	3	3	0	
Potassium Superoxide	-KO2	12030-88-	3	3	0	
RDX		121-82-4				
Sec-Butyl Alcohol (2-Butanol)	C4H10O	78-92-2A	0	1	3	
Silanes and Chlorosilanes						
Silicon Tetrachloride			2	3	0	W
Silver Acetylide						
Silver Cyanide	AgCN	506-64-9	11	3	0	
Silver Dinitrorescorcinate (Styphnate)						
Silver Fulminate (Cyanate)	AgOCN	3315-16-0	0	1	0	
Silver Nitride						
Silver Oxalate						
Silver Tetrazene						
Sodamide	H2NNa	7782-92-5	2	2	3	
Sodium Amide	H2NNa	7782-92-5	2	2	3	
Sodium Arsenate	Na3AsO4*12H2O	7778-43-0	0	3	0	

Name	Formula	CAS #	NFPA Reactive	NFPA Health	NFPA Flammable	NFPA Special
Sodium Arsenite	NaAsO2	7784-46-5	0	3	0	opeena
Sodium Chlorate	NaClO3	7775-09-9	2	1	0	OX
Sodium Chlorite			1	1	0	OX
Sodium Cyanide	NaCN	143-33-9	11	3	0	
Sodium Dithionite	Na2S2O4	7775-14-6	2	3	1	
Sodium Hydrosulfite	Na2S2O4*2H2O	7775-14-6	2	2	1	
Sodium Methylate	CH3ONa	124-41-4	2	3	3	W
Sodium Perborate	UNDEFINED	7632-04-4	0	3	0	
Sodium Perchlorate			2	2	0	W,O
Sodium Permanganate	NaMnO4	10101-50-	2	2	1	OX
Sodium Peroxide	Na2O2	1313-60-6	2	3	0	W,O
Strontium Perchlorate		13450-97-				
Styrene Monomer	C8H8	100-42-5	2	2		
Sulfur Trioxide	- SO3	7446-11-9	2	3	0	W
Sulfuryl Chloride (Sulfonyl)	CI2O2S	7791-25-5 _	2	3	0	W
Sulfuryl Chloride Fluoride	CIF02S	13637-84-	2		1	
T-Butyl Hypochlorite						
Tetrafluoroethylene				2	4	
Tetrahydrofuran	C4H8O	109-99-9	1	2	3	
Tetrahydronaphthalene	C10H12	<u>119-64-2</u>	0	1	<u> </u>	
Tetranitromethane		509-14-8				
Tetraselenium						
Tetranitride						
Tetrazene						
Tetryl		479-45-8	4	2	2	
Thallium Nitride						
Thermit	Fe2O3 + Al	69012-31-	0	0	0	

Name	Formula	CAS #	NFPA Reactive		NFPA Flammable	NFPA Specia
Thermite Igniting Mixture Thiocarbonyl	Al	Unknown	11	0	1	, i
Tetrachloride	CCI4S	594-42-3	2	3	0	
Thionyl Chloride	SOCI2	7719-09-7	2	4	0	
Titanium (Powder)	Ti	7440-32-6	2	1	1	
Titanium Tetrachloride			2	3	0	
Triethyl Aluminum		97-93-8				
Triethyl Arsine						
Triisobutyl Aluminum		<u> </u>				
Trimethyl Aluminum		75-24-1				
Trinitroanisole						
Trinitrobenzene			4	2	4	
Trinitrobenzoic Acid						
Trinitronaphthalene						
Trinitroresorcinol						
Trinitrotoluene	C7H5N3O6	<u>118-96-7</u>	4	2	4	
Trisilyl Arsine						
Uranium Compounds						
Uranyl Acetate	UO2(C2H3O2)2	541-09-3	0	0	0	
Uranyl Nitrate	UO2(NO3)2.6H2O	10102-06-	0	1	0	
Urea Nitrate						
Vinyl Acetate	C4H6O2	108-05-4	2	2	3	
Vinyl Acetylene			3	2	4	
Vinyl Chloride	C2H3Cl	75-01-4	2	2	4	
Vinyl Ethers			2	2	4	
Vinylidene Chloride (1,1-DCE)	C2H2Cl2	75-35-4	2	2	4	
Zinc Peroxide						

Name	Formula	CAS #	NFPA Reactive	NFPA Health	NFPA Flammable	NFPA Special
2-Butanone (MEK)	CH3COC2H5	78-93-3A	0	1	3	
Acetamide	CH3CONH2	60-35-5	11	3	1	
Acetanilide	CH3CONHC6H5	103-84-4	0	3	1	
Acetic Acid	СНЗСООН	<u>64-19-7A</u>	1	2	2	
Acetic Anhydride	(CH3CO)2O	<u> 108-24-7 </u>	1	3	2	
Acetone	СНЗСОСНЗ	67-64-1	0	1		
Acetyl Halides						
Acetylcholine Bromide	CH3CO2C2H4N(C	<u>66-23-9</u>	0	2	0	
Acridine Orange	UNDEFINED	10127-02-	0	2	0	
Adipoyl Chloride	CIOC(CH2)4COCI	<u> 111-50-2 </u>	0	2	<u> </u>	
Alizarin Red	UNDEFINED	130-22-3	0	2	1	
Alkyl Aluminum Chloride						
Aluminum	Al	7429-90-5	1	0	1	
Aluminum Acetate	AI(C2H3O2)2OH	142-03-0	11	1	0	
Aluminum Bromide	AlBr3	7727-15-3	1	3	1	
Aluminum Chloride,						
Hydrate	ALCL3*6H2O	7784-13-6	0	3	0	
Aluminum Fluoride	AIF3	7784-18-1	0	2	0	
Aluminum Hydroxide	AI(OH)3*3H2O	21645-51-	11	1	0	
Aluminum Nitrate	AI(NO3)3*9H2O	7784-27-2	0	1	0	ox
Aluminum						

Tetrahydroborate

Name	Formula	CAS #	NFPA Reactive	NFPA Health	NFPA Flammable	NFPA Special
Ammonia, Anhydrous						
(use restrictions)	NH3	7664-41-7	0	3	1	
Ammonia, Liquid	NH3	1336-21-6	0	3	1	
Ammonium Acetate	NH4C2H3O2	631-61-8	11	1	1	
Ammonium Bicarbonate	NH4HCO3	1066-33-7	11	1	0	
Ammonium Bichromate	(NH4)2Cr2O7	7789-09-5	11	1	1	_0X
Ammonium Bromide	NH4Br	12124-97-	0	2	0	
Ammonium Carbonate	NH4CO3	10361-29-	2	2	0	
Ammonium Chloride	NH4CI	12125-02-	0	2	0	
Ammonium Chromate	(NH4)2CrO4	7788-98-9	11	1	1	_0X
Ammonium Fluoride	NH4F	12125-01-	0	3	0	
Ammonium Hydroxide	NH4OH	1336-21-6	0	3	1	
Ammonium Iodide	NH41	12027-06-	1	2	0	
Ammonium Molybdate	(NH4)6Mo7O24*4H	12054-85-	1	2	0	
Ammonium Nitrate						
(500 g limit)	NH4NO3	6484-52-2	3	0	0	0X
Ammonium Oxalate	(NH4)2C2O4*H2O	6009-70-7	1	3	0	
Ammonium Phosphate,						
Dibasic	(NH4)2H2PO4	7783-28-0	11	2	0	
Ammonium Phosphate,						
Monobasic	NH4H2PO4	7722-76-1	0	2	0	
Ammonium Sulfate	(NH4)2SO4	7783-20-2	0	3	0	
Ammonium Sulfide	(NH4)2S*H2O	12135-76-	0	3	3	

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Name	Formula	CAS #	NFPA Reactive	NFPA Health	NFPA Flammable	NFPA Special
Ammonium Tartrate	(NH4)2C4H4O6	<u>3164-29-2</u>	0	2	0	
Ammonium Thiocyanate	NH4SCN	1762-95-4	1	2		
Amyl Acetate	CH3COOC5H11	628-63-7	0	1	3	
Amyl Alcohol(N)	CH3(CH2)3CH2OH	71-41-0A	0	1		
Aniline	C6H5NH2	62-53-3	0	3	2	
Aniline Hydrochloride	C6H5NH2*HCL	142-04-1	3	1		
Anisoyl Chloride	C8H7ClO2	- 100-07-2	0	3	2	
Barium Acetate	Ba(C2H3O2)H20	<u> </u>	00	2	0	
Barium Carbide						
Barium Chloride,						
Hydrate	BaCl2*2H2O	10326-27-	00	3	0	
Barium Nitrate	Ba(NO3)2	10022-31-	00	1	0	<u> </u>
Benzaldehyde	C6H5CHO	100-52-7	0	2	2	
Benzene Phosphorus Dichlo	oride					
Benzoic Acid	C6H5COOH	65-85-0	2	1		
Benzyl Chloride	C6H5CH2Cl	100-44-7	11	3	<u> </u>	
Benzyl Sodium						
Benzylamine	C6H5CH2NH2	100-46-9	0	3	<u> </u>	
Beryllium Tetrahydroborate						
Biphenyl (Diphenyl)	C6H5C6H5	92-52-4	0	2	1	
Bismuth Pentafluoride	BiF5	7787-62-4	0	1	0	
Boric Acid	H3BO3	10043-35-	0	2	0	

Name	Formula	CAS #	NFPA Reactive	NFPA Health	NFPA Flammable	- NFPA - Special
Boron-Bromodiiodide						
Boron Dibromoiodide						
Boron Phosphide						
Boron Trichloride						
Bromine Monofluoride						
Bromine Water	Br2 + H2O	7726-95-6				0X
Bromobenzene	C6H5Br	108-86-1	0	2	<u> </u>	
Bromodiethylaluminum						
Bromoform	CHBr3	75-25-2	0	3	0	
Butanol (N-Butyl Alcohol)	CH3(CH2)3OH	71-36-3	0	1	3	
Butyric Acid	CH3CH2CH2COH	107-92-6	0	3	2	
Calcium (100 g limit)	Ca	7440-70-2	2	3	1	W
Calcium Bromide	CaBr2	7789-41-5	1	1	0	
Calcium Hypochlorite	Ca(OCI)2	7778-54-3	1	3	0	<u> </u>
Calcium Nitrate Tetrahydrate	Ca(NO3)2*4H2O	13477-34-	1	2	0	0X
Calcium Phosphide						
Camphor (+/-)	C10H16O	21368-68-	0	0	2	
Carbon Disulfide (BI)		75-15-0	0	2		
Ceric (IV) Sulfate		13590-82-	0	3	0	OX

Name	Formula	CAS #	NFPA Reactive	NFPA Health	NFPA Flammable	NFPA Special
Cesium Amide						
Cesium Phosphide						
Chlorine Monofluoride						
Chlorine Pentafluoride						
Chloroacetic Acid	C2H3ClO2	79-11-8B	0	3	1	
Chloroacetyl Chloride	C2H2Cl2O/ClCH2C	79-04-9	11	3	0	
Chlorobenzene	C6H5Cl	108-90-7	0	2		
Chlorodiisobutyl Aluminum						
Chlorophenyl Isocyanate	C7H4CINO	3320-83-0				
Chromic Acid	CrO3	1333-82-0	1	3	0	<u>— 0X</u>
Chromium (IC) Nitrate	Cr(NO3)3*9H2O	7789-02-8	1	3	0	<u> </u>
Chromium Sulfate	Cr2(SO4)3*nH2O	10101-53-	00	2	0	
Chromium Trioxide	- CrO3	1333-82-0	1	3	0	
Cobalt (ous) Nitrate	Co(NO3)2*6H2O	10026-22-	00	2	0	OX
Cupric Bromide, Anhydrous	CuBr2	7789-45-9	0	2	0	
Cyclohexane	CH2(CH2)4CH2	110-82-7	0	1	3	
Dichlorobenzene	C6H4Cl2	<u> 106-46-7B</u>	0	2	2	
Dichloroethane	C2H4Cl2	<u>107-06-2B</u>	0	2	3	
Dichloromethane	CH2Cl2	75-09-2A	00	2	1	

Name	Formula	CAS #	NFPA Reactive	NFPA Health	NFPA Flammable	NFPA Special
Diethyl Aluminum Chloride	C4H10AICI	96-10-6				
Diethyl Zinc	C4H10Zn	557-20-0				
Diisopropyl Beryllium						
Dimethyl Magnesium						
Diphenyl Diisocyanate						
Diphenylamine	(C6H5)2NH	122-39-4	0	3	1	
Ethanol	C2H5OH	<u>64-17-5B</u>	0	0		
Ethyl Acetate	CH3COOC2H5	141-78-6	0	1	3	
Ethyl Alcohol	C2H5OH	<u>64-17-5A</u>	0	0		
Ethyl Methacrylate	CH2CCH3COOC2	97-63-2	0	2	3	
Ethylene Dichloride	C2H4Cl2	<u>107-06-2A</u>	0	2		
Ethylenediamine	NH2CH2CH2NH2	107-15-3	0	3	<u> </u>	
Faa Solution	UNDEFINED	NA14	0	2	3	
Fehlings Solution A	UNDEFINED	7758-99-8	11	3	0	
Fehlings Solution B	UNDEFINED	NA15	11	3	0	
Ferric Chloride, Anhydrous	FeCl3	7705-08-0	1	3	0	
Ferric Nitrate	Fe(NO3)3*9H2O	7782-61-8	1	1	0	<u>— 0X</u>
Fluorine Monoxide						

Fluorosulfonic Acid

Name	Formula	CAS #	NFPA Reactive	NFPA Health	NFPA Flammable	NFPA Special
Formalin	CH2O	50-00-0B	0	2	<u> </u>	
Formic Acid	НСООН	<u>64-18-6</u>	0	3	<u> </u>	
Gasoline	UNDEFINED	8006-61-9	0	1	3	
Glutaraldehyde	ОСН(СН3)ЗСНО	111-30-8	1	3	0	
Gold Acetylide						
Hematoxylin	C16H14O6*3H2O	517-28-2	1	1	0	
Heptane, N-	CH3(CH2)5CH3	142-82-5	0	1	3	
Hexamethylene Diisocyanate	C8H12N2O2	822-06-0	0	1	2	W
Hexamethylenediamine	H2N(CH2)6NH2	124-09-4	0	3	2	
Hexane, N-	CH3(CH2)4CH3	110-54-3	0	1	3	
Hydriodic Acid	HI	10034-85-	0	3	0	
Hydrobromic Acid	HBr	10035-10-	0	3	0	
Hydrochloric Acid	HCI	7647-01-0	0	3	0	
Hydrogen Peroxide (30% or less)	H2O2		1	3	0	0X
Hydroquinone	C6H4(OH)2	<u> 123-31-9 </u>	00	2	1	
Hydroxylamine						
Hydrochloride	NH2OH*HCI	5470-11-1	11	3	1	
lodine	12	7553-56-2	1	3	0	OX

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Name	Formula	CAS #	NFPA Reactive	NFPA Health	NFPA Flammable	NFPA Special
lodine Monochloride	ICI	7790-99-0	1	3	0	
Iron	Fe	7439-89-6	1	3	1	
Isoamyl Alcohol	(CH3)2CHCH2CH2	<u>123-51-3A</u>	0	1	2	
Isobutyl Alcohol	(CH3)2CHCH2OH	78-83-1	0	1		
Isopentyl Alcohol		123-51-36	0	1	3	
Isopropyl Alcohol	(CH3)2CHOH	67-63-0	0	1		
Kerosene	UNDEFINED	8008-20-6	0	0	2	
Lead Nitrate	Pb(NO3)2	10099-74-	0	1	0	OX
Lead Oxide, Red	Pb3O4	1314-41-6	11	3	11	OX
Lead Peroxide (DI)	PbO2	1309-60-0	11	3	0	OX
Lithium Amide						
Lithium Bromide	LiBr	7550-35-8	0	2	0	
Lithium Ferrosilicon						
Lithium Silicon						
Lithium Sulfate	Li2SO4*H2O	10102-25-	0	2	0	
Lye	NaOH	<u>1310-73-2</u>	11	3	0	
Magnesium (ribbon)	Mg	7439-95-4	2	0	1	W
Magnesium Nitrate	Mg(NO3)2*6H2O	13446-18-	0	1	0	OX
Manganese Carbonate	MnCO3	598-62-9	11	0	0	
Manganese Dioxide	MnO2	1313-13-9	1	2	0	<u>— 0X</u>

Name	Formula	CAS #	NFPA Reactive	NFPA Health	NFPA Flammable	NFPA Special
Manganese Nitrate (ous)	Mn(NO3)2*6H2O	10377-66-	0	3	0	_0X
Manganese Oxide	MnO2	1313-13-9	0	1	0	
Methyl Alcohol	СНЗОН	67-56-1	0	1	3	
Methyl Aluminum Sesquibromide		C3H9Al2Br3				
Methyl Aluminum Sesquichlo	ride C3H9AI2CI3	12542-85-				
Methyl Ethyl Ketone (MEK)	CH3COC2H5	78-93-3B	0	1		
Methyl Magnesium Bromide	CH3BrMg	75-16-1				
Methyl Magnesium Chloride	CH3CIMg	676-58-4				
Methyl Magnesium Iodide	CH3IMg					
Methylene Chloride	CH2CL2	75-09-2B	0	2	1	
Naphthalene	C10H8	91-20-3	0	2	2	
Napthol-1 (A)	C10H7OH	90-15-3	1	3	1	
N-Butyl Alcohol	C6H10O	71-36-3B	0	1		
N-Butyl Lithium						
Nickel Antimonide						
Nickel(II) Nitrate	Ni(NO3)2*6H2O	13478-00-	1	2	0	
Nickel(II) Sulfate	NiSO4*6H2O	10101-97-	0	2	0	
Nitric Acid	HNO3	7697-37-2	0	3	0	<u> </u>
Nitrobenzene	C6H5NO2	98-95-3	1	3	<u> </u>	

Name	Formula	CAS #	NFPA Reactive	NFPA Health	NFPA Flammable	NFPA Special
Nitrogen	<u>N2</u>	7727-37-9	0	3	0	
Octyl Alcohol	CH3(CH2)6CH2OH	111-87-5	0	1	<u> </u>	
O-Dichlorobenzene	C6H4Cl2	95-50-1	0	2	<u> </u>	
Oxalic Acid, Hydrate	H2C2O4*2H2O	6153-56-6	0	2	1	
Oxygen	02	7782-44-7	0	3	0	<u>— 0X</u>
P-Dichlorobenzene	C6H4Cl2	106-46-7	0	2	2	
Pentyl Alcohol (Amyl)	CH3(CH2)4OH	71-41-0B	0	1		
Petroleum Ether (500 ml limit)	UNDEFINED	8032-32-4	0	1	4	
Phosphoric Acid	H3PO4	7664-38-2	0	3	0	
Phthalic Acid	C6H4(COOH)2	88-99-3	11	0	1	
Polyphenyl Polymethyl Isou	uanta					
Polyvinyl Alcohol	CH2CH(OH)	9002-89-5	0	0	<u> </u>	
Potassium Bromate Chromate	KBrO3 K2CrO4	7758-01-2 7789-00-6	01	2	0	OXPotassium ——OX
Potassium Dichromate	K2Cr2O7	7778-50-9	11	3	11	<u>— OX</u>
Potassium Ferricyanide	K3Fe(CN)6	13746-66-	1	1	0	
Potassium Ferrocyanide	K4Fe(CN)6*3H2O	14459-95-	11	1	0	
Potassium Hydroxide	КОН	1310-58-3	11	3	0	
Potassium lodate	KIO3	7758-05-6	1	1	0	<u>— 0X</u>

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Name	Formula	CAS #	NFPA Reactive	NFPA Health	NFPA Flammable	NFPA Special
Potassium Nitrate	KNO3	7757-79-1	0	1	0	OX
Potassium Permanganate	KMnO4	7722-64-7	0	1	0	_0X
Potassium Persulfate	K2S2O8	7727-21-1	0	1	0	0X
Potassium Sulfide	K2S	1312-73-8	0	3	1	
Propane (use restrictions)	CH3CH2CH3	74-98-6	0	1	4	
Propionic Acid	C3H6O2	79-09-4	0	2	<u> </u>	
Propyl Alcohol	C3H8O	71-23-8	0	1		
Pyridine	C5H5N	110-86-1	0	3	3	
Pyrosulfuryl Chloride						
Silver Nitrate	AgNO3	7761-88-8	0	1	0	OX
Silver Sulfate	Ag2SO4	10294-26-	0	2	0	
Sodium Bisulfite	NaHSO3	7631-90-5	11	1	0	
Sodium Chromate	Na2CrO4	7775-11-3	1	3	0	0X
Sodium Cobaltinitrite	Na3Co(NO2)6	13600-98-	0	2	0	0X
Sodium Dichromate, Hydrate	Na2Cr2O7*2H2O	7789-12-0	1	1	0	
Sodium Fluoride	NaF	7681-49-4	0	3	0	
Sodium Hydroxide	NaOH	1310-73-2	1	3	0	
Sodium Hypochlorite	NaCIO	7681-52-9	1	2	0	
Sodium lodate	NalO3	7681-55-2	11	1	0	OX

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Name	Formula	CAS #	NFPA Reactive	NFPA Health	NFPA Flammable	NFPA Special
Sodium Iodide	Nal	7681-82-5	11	2	0	
Sodium Meta-Bisulfite	Na2S2O5	7681-57-4	1	3	0	
Sodium Nitrate	NaNO3	7631-99-4	11	1	0	OX
Sodium Nitrite	NaNO2	7632-00-0	11	2	0	OX
Sodium Phosphate, Tribasic	Na3PO4*12H2O	7601-54-9	11	2	0	
Sodium Potassium Alloy						
Sodium Sulfide	Na2S*9H2O	1313-84-4	11	3	1	
Sodium Thiocyanate	NaSCN	540-72-7	11	3	0	
Sodium Thiosulfate	Na2S2O3*5H2O	10102-17-	1	0	0	
Stannic Chloride	SnCl4	7646-78-8	1	3	0	
Strontium Nitrate	Sr(NO3)2	10042-76-	0	1	0	OX
Sulfur Chloride	CI2S2	10025-67-	1	2	1	
Sulfur Pentafluoride						
Sulfuric Acid (<10%)	H2SO4	7664-93-9	0	3	0	
Sulfuric Acid (>10%) (2.5 I limit)	H2SO4	7664-93-9	2	3	0	W
T-Butanol	(СНЗ)ЗСОН	75-65-0	0	1		
Terpineol	C10H17OH	98-55-5	0	0	2	
Thiophosphoryl Chloride	CI3SP	3982-91-0	0	3	0	
Tin	Sn	7440-31-5	1	1	1	

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Name	Formula	CAS #	NFPA Reactive	NFPA Health	NFPA Flammable	NFPA Special
Toluene	C7H8	108-88-3	0	2		
Toluene Diisocyanate	C9H6N2O2	584-84-9	1		1	
Toluidine Blue	CH3C6H4NH2	95-53-4	0	3	<u> </u>	
Trichloroethane-1,1,1	C2H3Cl3	71-55-6	1	3	1	
Trichloroethylene	C2HCI3	79-01-6	0	2	1	
Triethanolamine	C6H15NO3	102-71-6	1	2	1	
Triethyl Stibine						
Trimethylpentane 2,2,4	C8H18	540-84-1	0	0	3	
Tri-N-Butyl Aluminum						
Trioctyl Aluminum						
Triphenyl Tetrazolium Chlo	oride	C19H15N4Cl	298-96-4	1	2	1
Tripropyl Stibine						
Trisodium Phosphate	Na3H3PO4	7601-54-9	1	2	0	
Trivinyl Stibine						
Tungsten	W	7440-33-7	1	1	2	
Turpentine	C10H16	8006-64-2	0	1	3	
Vanadium Trichloride	VCI3	7718-98-1				
Xylene	C8H10	1330-20-7	0	2	3	
Zinc (Powder)	Zn	7440-66-6	1	1	1	W

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Name	Formula	CAS #	NFPA Reactive	NFPA Health	NFPA Flammable	NFPA Special
Zinc Acetylide						
Zinc Nitrate (500 g limit)	Zn(NO3)2*6H2O	10196-18-	2	1	1	0X
Zinc Phosphide	Zn3P2	1314-84-7	1	3	3	

Appendix B2 Restricted Chemicals (Demonstration Use Only)

Name	Formula	CAS #	NFPA Reactive	NFPA Hoalth	NFPA Flammable	- NFPA - Special
		-	- Nodulivo 2			
Aluminum Chloride, Anhydrous (25 g limit)	AICI3	7446-70-0	2		0	W
Ammonium Dichromate (100 g limit)	(NH4)2Cr2O7	7789-09-5	3	4	1	<u> </u>
Ammonium Persulfate (100 g limit)	(NH4)2S2O8	7727-54-0	3	2	0	0X
Antimony Metal	Sb	7440-36-0				
(50 g limit)						
Bromine	Br2	7726-95-6	0	4	0	OX
(3 - 1 g ampules limit)						
Calcium Carbide		75-20-7	2	1	3	W
(100 g limit)						
Chromium Oxide	Cr2O3	1308-38-9	3	4	0	OX
(20 g limit)						
*Collodion		9004-70-0	0	1	4	
(100 ml limit)						
* Cyclohexanone	C6H10O	108-94-1	0	1	2	
(100 ml limit)						
* Cyclohexene	C6H10	110-83-8	0	1	3	
(100 ml limit)	001110		· · ·		· ·	
*Cyclopentanone		120-92-3	0	2	3	
(100 ml limit)						
* Diethyl Ether	(C2H5)2O	<u>60-29-7B</u>	1	2	4	
(500 ml limit)						
* Diglyme	(CH3O)CH2	111-96-6	1	1	2	
(500 ml limit)	(-	
Dinitrophenylhydrazine (100 g limit)	C6H6N4O4	119-26-6	2	1	<u> </u>	

Hydrides, Borohydrides (100 g limit)

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Appendix B2 Restricted Chemicals (Demonstration Use Only)

Name	Formula	CAS #	NFPA Reactive	NFPA Health	NFPA Flammable	NFPA Special
Hydrogen (limited to 2 cu ft lecture bottle)	H2	1333-74-0	0	0	4	
Lithium (20 g limit)	Li	7439-93-2	2	11	1	W
Magnesium (turnings) (100 g limit)	Mg	7439-95-4	2	0	1	W
*Methyl Isobutyl Ketone (MIBI (250 ml limit)	<) CH3COCH2CH(CH) <u>108-10-1</u>	1	2	3	
Pentane (100 ml limit)	C5H12	<u> 109-66-0</u>	0	11	4	
Phosphorus, Red (Amorphous (50 g limit)) P	7723-14-0	1	1	1	
Potassium (1- bottle w/5 demonstration-si	K ze pieces)	7440-09-7	2	3	1	W
Potassium Chlorate (100 g limit)	KCIO3	3811-04-9	0	2	0	<u> </u>
Silver Oxide (100 g limit)	Ag2O	20667-12-	2	1	1	<u>ox</u>
Sodium (100 g limit)	Na	7440-23-5	2	3	3	W
Wright's Stain (HG Containing) (100 ml limit)	Undefined	68988-92-	0	0	3	

(*) Indicates those compounds that have peroxide forming potential that must be addressed in the written chemical management plan.