SECTION 15455
WATER CONSERVATION

PART 1 - GENERAL

1.1 SUMMARY:

A. Section Includes:

1. Dishwashers and other water-using kitchen appliances, including prerinse spray valves
2. Bathroom faucets, urinals, toilets and shower heads
3. Laboratory faucets
4. Water based cooling systems

B. Related Sections:

1. Section 02665 – Water Systems
2. Section 11452 – Residential Appliances
3. Section 15430 – Plumbing Specialties
4. Section 15440 – Plumbing Fixtures
5. Section 15450 – Plumbing Equipment
6. Section 15460 – Special Plumbing Equipment Systems
7. Section 15650 – Refrigeration

1.2 INTENT:

A. The water conservation standards establish minimum standards for water saving apparatuses and outlines LEED certification required for new construction at the University.

1.3 CODES & STANDARDS:

A. The most recent City of Boulder Design & Construction Standards are incorporated by reference into the University’s Standards. When there is a conflict between standards, the more stringent requirement shall apply. The University’s Civil Engineer must approve in writing any deviation from these standards prior to construction.

B. The most recent International Plumbing Code

C. The most recent International Building Code

1.3 QUALITY ASSURANCE:

A. Specify all installations in accordance with jurisdictional code and health authority’s standards, restrictions and recommendations.

B. Specify contractor to provide all fixtures using a single manufacturer where possible. Allow deviation only where specifications indicate otherwise.
PART 2 - PRODUCTS

2.1. KITCHEN APPLIANCES:
   A. Prerinse spray valves
      1. All prerinse spray valves shall have a flow rate of less than or equal to 1.6 gpm.
      2. No pressure specifications are required for prerinse spray valves

2.2. BATHROOM FIXTURES:
   A. Faucets:
      1. All new faucets shall have a maximum flow rate of 0.5 gpm @ 60 psi
   
   B. Water closets:
      1. New toilets shall not exceed 1.28 gpf and shall be equipped with dual flush handles and signage.
   
   B. Urinals:
      1. New urinals shall not exceed ¼ gpf
   
   C. Showers
      1. Showerheads shall exceed 2.0 gpm @ 80 psi.

2.3. LABORATORY FIXTURES:
   A. Faucets:
      1. Laboratory faucets shall not exceed 1.5 gpm, unless special circumstances require greater flow.
   
   B. Equipment cooling
      1. “Once through” cooling shall not be allowed unless approved by the UCB Resource Conservation Officer.

PART 2 – EXECUTION

3.1 FIELD QUALITY CONTROL:
   A. Not used

END OF SECTION 15455