DATE OF THIS VERSION (new)
November 1, 2016

TITLE OF DOCUMENT (new title if applicable):
NCA Facilities Design Guide, Section 5 Design Criteria

DATE OF VERSION BEING SUPERSEDED (old):
March 1, 2010

DESCRIPTION OF DOCUMENT (previous title, number, other identifying data):
NCA Facilities Design Guide, Section 5 Design Criteria

SUMMARY OF CHANGES IN THIS VERSION:
Updated the following sections:
5.1 – Site Development Design Criteria
5.1.2 – 2.1, 2.2, & 2.3
Updated list of sources to current organizations and documents
5.1.6 – 6.5 & 6.6B
Updated references for evaluation of topsoil
Added requirements for bulk sampling and testing subsoil conditions for engineering properties
5.1.9 – 9.4
updated contact information for Federal Aviation Administration
5.1.10 – 10.6
updated reference to ABA standards
5.1.12 – 12.7

5.2 – Sanitary Design Criteria
5.2.5 – 5.1 & 5.2
5.2.6 – 6.1, 6.2, 6.3, 6.7, & 6.8
replaced paragraph with requirements to comply with Energy Independence and Security Act (EISA) Section 438 requirements
modified to include compliance with NPDES effluent limitations

5.3 – Irrigation Design Criteria
Entire section
general grammatical and editorial corrections

5.4 – Architectural and Interior Design Criteria
5.4.1 – 1.8
Updated ASHRAE requirements, added biobased material

5.6 – HVAC Design Criteria
5.6.3 – 3.2 & 3.3
Updated references, NFPA requirements and added information on spark resistant construction of fans.

5.7 – Plumbing Design Criteria
5.7.1 – 1.14
Added sustainable design
5.7.6 - Entire Section
added water heater types
added solar water heater design criteria.
added sizing criteria for tankless water heaters.
added sizing criteria for storage water heaters.
added heater water supply temperature design criteria.
added master thermostatic mixing valve design criteria.
added tempering valve design criteria.
added hot water circulation design criteria.
added heat trap design criteria.
added thermal expansion design criteria.
added vacuum relief design criteria.

5.7.8 – Entire Section
add storm water system disposal design criteria.
added pump redundancy.
added storm drainage system design criteria.

5.7.14 – Entire Section
Revised floor drain types and related notes.