Facilities Standards & Guidelines

C.67 Condensate Pumps

Revision 0

Issue Date: 12/30/2024

BAE SYSTEMS

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Section 1 – Summary

1.1 The purpose of the Condensate Pump Design Criteria is to achieve a coherence, continuity, and compatibility for all buildings managed and operated by BAE. The design standards set forth here are intended to assist designers and contractors in providing a design, which is conducive to supporting BAE's operational, maintenance, and life cycle needs.

1.2 All condensate pumps shall be implemented in specified locations from equipment where condensate is generated and cannot be gravity drained.

1.3 BAE utilizes Little Giant VCMA-20 Series and Beckett as acceptable manufacturers for condensate pumps.

Section 2 – Specific Design Requirements

2.1 General

2.1.1 The condensate pumps must be installed in areas accessible for maintenance.

2.1.2 Condensate pumps shall be sized per the equipment capacity and pipe diameter, in compliance with the latest International Mechanical Code.

2.2 Mechanical

2.2.1 Condensate pumps shall be provided for any equipment containing evaporators or cooling coils. The pumps shall be sized and indicated on the Mechanical Schedules of the drawings and labeled per the BAE Equipment Naming Standard. Specify plenum rated where applicable.

2.2.2 For steam condensate pumps, designers and contractors shall specify Becket pumps rated for condensate up to 150 degrees Fahrenheit.

2.2.3 Condensate piping shall have a drain pitch equivalent to ¼" per foot to prevent obstruction in piping and allow proper drainage to sanitary.

2.2.4 Ensure that all steam condensate piping has insulation up to the point of discharge.

2.3 Plumbing

2.3.1 Condensate piping shall indirectly drain to floor sinks, floor drains, mop sinks, or utility sinks per the International Plumbing code and local AHJ. Coordinate with SH&E and Facilities Engineering to

ensure that the floor drains, or floor sinks connect to sanitary, and not Wastewater Treatment or other containment. Designer shall be responsible to ensure that the drain has capacity to handle the condensate flows.

2.3.2 All condensate lines have adequate p-traps, venting, and cleanouts.

2.3.3 Condensate drainage cannot connect to storm drains or discharge to any areas such as streets, parking, or walkways that can cause pooling or slippery surfaces.

2.4 Electrical

2.4.1 Coordinate all condensate pump selections with the Design Team and Facilities Engineering, with compliance to the latest National Electric Code standards and local AHJ.

Supplemental Document Information

The following resource documents should be referenced for execution of the standards and guidelines described above.

Document Number	Document Title

Revision Log

Revision	Release Date	Description of Changes
0	12/30/2024	Initial Release