



**Agency of Administration
Department of Buildings and
General Services**

**Report to the House Committee on
Corrections and Institutions and
Senate Committee on Institutions**

**Statewide Correctional Facilities
HVAC Study**

**In accordance Acts of 2023 No. 69, Section 3(c)(1) as
appropriated in subsections 3(a) and 3 (b)(3)**

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HVAC Study Update

Buildings and General Services procured an engineering design firm to provide a comprehensive feasibility report for the correctional facilities lacking integral chilling equipment.

Recommendations were provided for each facility, with the focus of adaptive integration into existing air distribution systems. Following a collaborative review process with the Department of Corrections, the preferred resolutions are as follows:

- **Northern State Correctional Facility (NSCF)**
Installation of a 350-ton air-cooled chiller with chilled water closed loop distribution to 27 existing air handling units and ten new unit ventilators.
Estimated total design and construction cost: \$2,400,000.
- **Northeast Regional Correctional Facility (NERCF)**
Installation of a 75-ton air-cooled chiller with glycol closed loop distribution to four existing air handling units and three new unit ventilators.
Estimated total design and construction cost: \$1,500,000.
- **Caledonia County Work Camp (CCWC)**
Installation of a 350-ton air-cooled chiller with chilled water closed loop distribution to 27 existing air handling units and ten new unit ventilators.
Estimated total design and construction cost: \$575,000.
- **Northwest State Correctional Facility (NWSCF)**
Installation of a 150-ton air-cooled chiller with chilled water closed loop distribution to 12 new air handling units and four new unit ventilators as well as the enlargement of existing ductwork distribution and roof restructuring.
Estimated total design and construction cost: \$16,600,000.
- **Southern State Correctional Facility (SSCF)**
Installation of a 350-ton air-cooled chiller with chilled water closed loop distribution to 27 existing air handling units and ten new unit ventilators.
Estimated total design and construction cost: \$3,000,000.

The next phase of this effort is to develop a request for proposal to provide the design for the upgrades and replacement of the HVAC systems and, to the extent possible, design HVAC systems in common areas to immediately alleviate heat-related stress for staff and residents and integrate later into the permanent cooling system proposed for each facility.