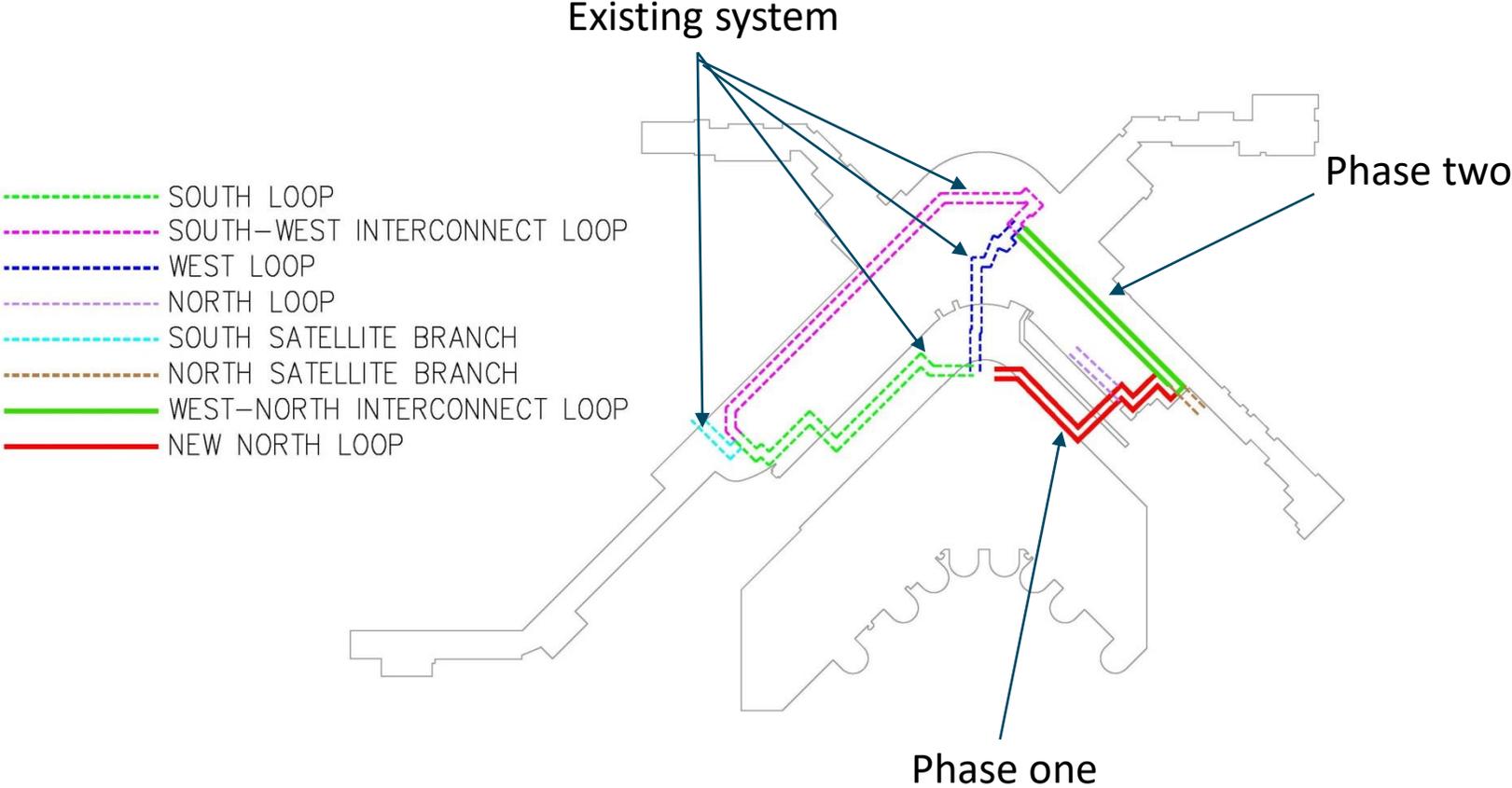


North Terminals Utilities Upgrade Project (NTUUP)

Seattle-Tacoma International
Airport
October 22, 2019

Project location and phases



Project Purpose: Provide adequate HVAC and redundancy

Phase 1: Provide adequate HVAC for NSTAR & D Concourse Annex

- Scope
 - Replace and extend the existing 45-year-old undersized steam, condensate and chilled water supply and return piping from the Central Mechanical Plant to the new valve room building that will be in the north east corner of the north GT lot east of the D concourse Annex sloped walkway.
- Purpose
 - Existing piping is undersized for current and future projected system loads.
 - Project is required to supply adequate heating and cooling to the terminal building and the new North Star Program

Phase 2- Provide Redundancy

- Scope
 - Install steam, condensate, and chilled water supply and return piping from the Central Terminal baggage level connection point to the new valve room building that will be in the north east corner of the north GT lot east of the D concourse Annex sloped walkway.
- Purpose
 - Provide a fully redundant loop system
 - Enable any part of the airport terminal to operate Heating, Ventilation, and Air Conditioning (HVAC) systems while being supplied from the south or north steam, condensate, chilled water supply and return piping.
 - This level of redundancy currently exists for Concourse A, B, and the South Satellite. Completing this project will enable airport wide HVAC system redundancy for all concourses and satellites.

Budget Increase

- Original Estimate based upon existing conditions at the time. Coordination with Concourse D Annex and Baggage Optimization project revealed significant cost increases due to required alternate routing and addition of valve room.

Lessons Learned

- AVPMG requiring additional site investigation earlier in design to identify unknown conditions.
- Increased project coordination requirements to go along with initial estimates.

Our request

- Commission authorization for the Executive Director to advertise and award a construction contract for Phase 1 of the North Terminals Utilities Upgrade Project at Seattle-Tacoma International Airport.