

The University of North Carolina
Request for Advance Planning, New, or Increase in Capital Improvement Project

Institution **UNC Greensboro** ☐ Advance Planning Request ☒ New Capital Project Code ____ Item ____*
☐ Increase in Authorization from \$_____ to \$_____ Code ____ Item ____
Interscope Project Number _____

*If this project has previously had advance planning authority, please identify relevant code/item number.

Project Title: **Steam Plant Control Systems Upgrade**

Project Cost: **\$500,000**

Source of Funds: **Carry Forward (CF)**

(If multiple funding sources are used, identify source and % distribution across sources, refer to list of fund sources on page 2. Sum of all sources should equal 100%.)

For each advance planning project or capital construction project, please provide the following:

1. A detailed project description and justification.

The existing Steam Plant Control System is old, inefficient and unreliable. The project will provide new controlling equipment and direct digital controls which will substantially improve reliability, operability and efficiency of the campus heat system. Scope includes integration into the University Building Automation System, (4) individual boiler control cabinets with touch screen displays, a new master control cabinet with touch screen display, (5) VFDs for forced draft fans and for feed water pump, new wall mounted monitors for operator's Control Room, new UPS system for Steam Plant control system, new site glasses and level controls for deaerator tank and condensate tank, along with training for all operators.

2. An estimate of acquisition, planning, design, site development, construction, contingency and other related costs (attach a completed OC-25 form).

See attached OC-25 form

3. An estimated schedule for the completion of the project (enter dates mm/dd/yr).
Designer start: 12/2/2019 Construction start: 3/14/2020 Construction complete: 6/30/2020

4. An estimated schedule of cash flow requirements over the life of the project by FY quarters (omit for advance planning requests).

FY/Qtr	19-20 Q2	19-20-Q3	19-20-Q4
\$ Amount	\$10,000	\$140,000	\$350,000

5. An estimate of maintenance and operating costs and source of funding to support these costs, including personnel, covering the first five years of operation (omit for advance planning and non-general fund requests, required for general fund requests).

N/A

6. An estimate of revenues, if any, likely to be derived from the project, covering the first five years of operation (omit for advance planning and non-general fund requests, required for general fund requests)

N/A

7. An explanation of the means of financing (i.e. cash reserves using the fund sources identified above, campus debt financing to be retired with the identified fund source, etc.).

Utility Savings Carry Forward Fund

Fund Sources

Group Type	Title	Reporting Abbreviation	Description
State Appropriations	R&R	RR	Funds appropriated by the legislature for campus repairs and renovations in 13 statutorily prescribed categories.
State Appropriations	Carry Forward	CF	State appropriations carried forward under the 2.5% permitted by legislation. By Session Law, carry forward is considered non-general fund when it is carried forward.
Mandatory Student Fees	Athletics Fee	SAF	Fees collected specifically for support of campus student athletics and recreation services.
Mandatory Student Fees	Campus Safety Fee	SSF	Fees collected specifically for support of campus safety items such as emergency phones and cameras.
Mandatory Student Fees	Debt Service Fee	DSF	Debt service fees authorized for specific projects.
Mandatory Student Fees	Education and Technology Fee	ETSF	Fees collected specifically for support of education and technology items.
Mandatory Student Fees	Health Services Fee	HSF	Fees collected specifically for support of campus student health services.
Mandatory Student Fees	Other Student Fees	OSF	Any other student fees authorized and collected for other purposes, but not listed in above categories.
Auxiliary Trust Funds	Athletics	AR	Receipts from ticket sales, gifts, donations, cash reserves, including Athletics Foundation reserves.
Auxiliary Trust Funds	Dining	DR	Receipts from operations, cash reserves.
Auxiliary Trust Funds	Housing	HR	Receipts from operations, cash reserves.
Auxiliary Trust Funds	Transportation and Parking	TR	Receipts from operations, cash reserves.
Auxiliary Trust Funds	Utility Trust Funds	UTF	Receipts from operations, cash reserves from operation/management of all/any campus utilities (steam, chilled water, etc.).
Auxiliary Trust Funds	Other Auxiliary Trust Funds	OTF	Receipts from operations, cash reserves from other campus auxiliaries not specified above.
Other Trust Funds	Centennial/Millennial Campus Funds	CMF	Receipts from operations, cash reserves under the Millennial Campus financing act.
Other Trust Funds	Clinical Receipts	CR	Receipts from operations, cash reserves.
Other Trust Funds	Facilities and Administrative	FA	Overhead receipts (facilities and administrative overhead) generated from campus research.
Private Sources/Foundations	Donations and Gifts	DG	Contributions made by gift, donation, bequest, or other private sources.
Private Sources/Foundations	Endowment	ENDF	Funds from the endowment fund of the University.