2015 COMPREHENSIVE PERMANENT IMPROVEMENT PLAN (CPIP): NARRATIVE SUMMARY OF THE FIVE-YEAR PLAN

AGENCY NUMBER: H29 NAME: USC Aiken

1. What is the condition and adequacy of your existing facilities? Demand trends? What is the total amount of your agency's maintenance needs?

USC Aiken has maintained a strong track record of preventative maintenance. The overall condition of campus buildings is good. However, with some buildings approaching 40+ years old, the need for major system replacements are becoming an increasing challenge. As enrollment has increased over the last few years, demand on the facilities has increased as well, resulting in much wear and tear on flooring systems, doors, and HVAC equipment among others.

The institution's unfunded maintenance needs are estimated to be approximately $11M based upon the CHE Building Condition Assessment.

2. What is your approach to maintaining existing facilities in acceptable condition? How are maintenance needs addressed? If your agency has an account dedicated to maintenance needs, what is the name of that account and what is its uncommitted balance?

Continued attention to routine preventative maintenance and planned life cycle replacement are general strategies utilized for maintaining the physical condition of buildings and infrastructure. Deferred maintenance needs are reviewed and prioritized. Where possible, they are included in the campus master plan. These needs have historically been funded by the institution using E&G Maintenance Reserve, Institutional Capital Project Funds (ICPF) or tuition bonds. Supplemental funds, such as those received by the state, are also important in controlling the full scope of maintenance needs. Currently all funds designated for maintenance have been assigned to projects based on priority and consequently there is no uncommitted balance.

3. What are your facility replacement and addition needs?

Our foremost facility need is the replacement of the Penland Building HVAC system. The majority of this system is original to the building and/or nearing the end of its useful life. Other needs include classroom and support space related to arts and sciences and library renovations to support the changing learning needs of our students. Finally, in support of the institution's desire to grow to support the needs of more South Carolinians, the institution envisions a future need for an additional academic building.

4. What is the theme of your five-year CPIP? How does it address these questions?

The theme of this CPIP is focusing on critical space requirements at USCA through focusing on stewardship of existing facilities, taking advantage of strategic fundraising opportunities in support of key programs, and positioning the institution to achieve its strategic goal of growing the institution to serve more South Carolinians and being as responsive as possible to the needs of our region.

2015 COMPREHENSIVE PERMANENT IMPROVEMENT PLAN (CPIP): FINANCIAL SUMMARY OF THE FIVE-YEAR PLAN

AGENCY NUMBER: H29 NAME: USC Aiken

(1)	(2) Plan Year 1 2015-16	(3) Plan Year 2 2016-17	(4) Plan Year 3 2017-18	(5) Plan Year 4 2018-19	(6) Plan Year 5 2019-20	(7) Grand Total Years 1-5
1. **NUMBER OF PROPOSED PROJECTS** (from Forms C2)	1.00	2.00	2.00	2.00	1.00	8
2. **ESTIMATED COSTS AND PROPOSED FUND SOURCES**						
0 Capital Improvement Bonds						
1 Departmental CIB						
2 Institution (Tuition) Bonds						
3 Revenue Bonds						
4 Excess Debt Service						
5 Capital Reserve Fund						
6 Appropriated State		5,250,000.00	3,500,000.00	23,000,000.00	8,500,000.00	40,250,000.00
7 Federal						
8 Athletic						
9 Other	2,500,000.00	4,000,000.00	5,500,000.00	25,000,000.00	1,500,000.00	38,500,000.00
TOTAL	2,500,000.00	9,250,000.00	9,000,000.00	48,000,000.00	10,000,000.00	78,750,000.00

B&CB Form C1

2015 COMPREHENSIVE PERMANENT IMPROVEMENT PLAN (CPIP)

AGENCY NUMBER: H29 NAME: USC Aiken

PROJECT PROPOSED FOR PLAN YEAR (Check One):

1: 2015-16 _X_	2: 2016-17 ___	3: 2017-18 ___	4: 2018-19 ___	5: 2019-20___

PRIORITY NUMBER	PROJECT NAME	ESTIMATED COST	PROPOSED SOURCE(S) OF FUNDS
1	Solar Farm	2,500,000.00	Private ($2.3M); Institutional Funds ($200,000)
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
	TOTAL	2,500,000.00	

B&CB Form C2

2015 COMPREHENSIVE PERMANENT IMPROVEMENT PLAN (CPIP)

Agency Number: H29 Name: USC Aiken

PROJECT PROPOSED FOR PLAN YEAR (Check One): 1: 2015-16 X 2: 2016-17 ___

1. Project Name: Solar Farm

2. Project Priority: 2 of 1 in Plan Year

3. Project Type: New Construction 100 %

4. Facility Type: Utilities 100 %

5. What is the project?

The University of South Carolina Aiken is coordinating with SCE&G to install a Solar Farm on campus land and the roofs of some facilities. The electricity produced from the solar farm will feed into the SCE&G grid, while the electricity produced on the roof tops will feed into the campus grid offsetting demand and reducing our utility costs.

The total projected cost of this project is $ 2,500,000.00.

Attach Form C4 for additional annual operating costs or savings for each proposed new project.

6. Why is the project needed?

This project will assist USC Aiken in meeting our State mandate for reduction of 20% of carbon footprint by 2020. This will provide learning opportunities for students and the community. This project is being funded by SCE&G in agreement with USC Aiken and the Aiken County Commission for Higher Education.

7. What alternatives to this project were considered?

Several locations for the Solar Farm were considered. Ultimately two locations on the USC Aiken campus were determined to be the best options .

8. Total estimated project cost:

1.		Land Purchase	Land	Acres
2.		Building Purchase	Floor Space:	Gross Square Feet
3.	80,000.00	Professional Services Fees		
4.		Equipment and/or Materials	Information Technology	$
5.	15,000.00	Site Development		
6.	2,000,000.00	New Construction	Floor Space:	Gross Square Feet
7.		Renovations - Building Interior	Floor Space:	Gross Square Feet
8.		Renovations - Utilities		
9.		Roofing	Roof Age	
10.		Renovations - Building Exterior		
11.		Other Permanent Improvements		
12.	12,000.00	Landscaping		
13.		Builders Risk Insurance		
14.		Other Capital Outlay		
15.		Labor Costs		
16.		Bond Issue Costs		
17.		Other		
18.	393,000.00	Contingency		
$	2,500,000.00	**TOTAL PROJECT BUDGET**		

9. Proposed Source of Funds

0.		Capital Improvement Bonds
1.		Departmental CIB
2.		Institution (Tuition) Bonds
3.		Revenue Bonds
4.		Excess Debt Service* ( )
5.		Capital Reserve Fund
6.		Appropriated State
7.		Federal
8.		Athletic
9.	2,500,000.00	Other* (Institutional Funds; Private Funds)
$	2,500,000.00	**TOTAL**

* Specify Type

10. Project Schedule
(for 2015-16 only)

A. Estimated Start Date: May 2015

B. Estimated Completion Date: July 2018

C. Estimated Total Expenditures

(1) In 2015-2016 Year $ 1,000,000.00

(2) After 2015-2016 Year $ 1,500,000.00

(3) Total Project Cost $ 2,500,000.00

2015 COMPREHENSIVE PERMANENT IMPROVEMENT PLAN (CPIP)

ADDITIONAL ANNUAL OPERATING COSTS/SAVINGS RESULTING FROM PERMANENT IMPROVEMENT PROJECT

1. AGENCY

Code H29 Name USC Aiken

2. PROJECT

No. Name Solar Farm

PROJECT PROPOSED FOR PLAN YEAR (Check One): 1: 2015-16 _X__ | 2: 2016-17 ___

3. ADDITIONAL ANNUAL OPERATING COSTS/SAVINGS.
(Check whether reporting cost or savings.)

☐ COSTS ☒ SAVINGS ☐ NO CHANGE

4.

TOTAL ADDITIONAL OPERATING COSTS/SAVINGS Projected Financing Sources				
(1)	(2)	(3)	(4)	(5)
Fiscal Year	General Funds	Federal	Other	Total
1) 2016-17	$2,000.00			$ 2,000.00
2) 2017-18	$2,000.00			$ 2,000.00
3) 2018-19	$2,000.00			$ 2,000.00

5. If "Other" sources are reported in Column 4 above, itemize and specify what the other sources are (revenue, fees, etc.).

6. Will the additional costs be absorbed into your existing budget? If no, how will additional funds be provided? ☐ YES ☐ NO

7. Itemize below the cost factors that contribute to the total costs or savings reported in Column 5 for the first fiscal year.

COST FACTORS	AMOUNT
1. Energy Costs	2,000.00
2.	
3.	
4.	
5.	
6.	
7.	
8.	
TOTAL	2,000.00

8. If personal services costs or savings are reported in 7 above, please indicate the number of additional positions required or positions saved. ____0____

9. Submitted By: UNIVERSITY ARCHITECT 3/20/15

Signature of Authorized Official and Title Date

2015 COMPREHENSIVE PERMANENT IMPROVEMENT PLAN (CPIP)

AGENCY NUMBER: H29 NAME: USC Aiken

PROJECT PROPOSED FOR PLAN YEAR (Check One):

1: 2015-16___	2: 2016-17 _X__	3: 2017-18 ___	4: 2018-19 ___	5: 2019-20 ___

PRIORITY NUMBER	PROJECT NAME	ESTIMATED COST	PROPOSED SOURCE(S) OF FUNDS
1	Ruth Patrick Science Center Renovation/Expansion	4,000,000.00	Private Funds
2	Penland Building HVAC Replacement	5,250,000.00	Appropriated State
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
	TOTAL	9,250,000.00	

B&CB Form C2

2014 COMPREHENSIVE PERMANENT IMPROVEMENT PLAN (CPIP)

Agency Number: H29 Name: USC Aiken

PROJECT PROPOSED FOR PLAN YEAR (Check One): 1: 2015-16 __ 2: 2016-17 _X__

1. Project Name: Ruth Patrick Science Center Renovation/Expansion

2. Project Priority: 1 of 2 in Plan Year

3. Project Type:

Renovate Existing Facilities	25 %
Construct Additional Facilities	75 %

4. Facility Type:

Academic/Program	100 %
	%

5. What is the project?

USC Aiken is partnering with private donors to expand and renovate the existing Ruth Patrick Science Center. The project would include constructing a new planetarium, natural history museum, as well as renovation of existing space for other STEM programs. The existing planetarium is dated and undersized for the current demand of the facility. Technology for a new planetarium is much more advanced and will provide a better education to those who visit the facility. The planetarium and natural history museum will be a new facility with all the necessary equipment including, exhibition spaces, furniture, HVAC, etc. The existing planetarium will be repurposed to facilitate other STEM programs. The project estimate includes architectural and engineering services and other appropriate documentation.

The total projected cost of this project is $ 4,000,000.00 .

Attach Form C4 for additional annual operating costs or savings for each proposed new project.

8. Total estimated project cost:

1.		Land Purchase	Land	Acres
2.		Building Purchase	Floor Space:	Gross Square Feet
3.	40,000.00	Professional Services Fees		
4.	30,000.00	Equipment and/or Materials	Information Technology	$
5.	15,000.00	Site Development		
6.	3,000,000.00	New Construction	Floor Space:	Gross Square Feet
7.	60,000.00	Renovations - Building Interior	Floor Space:	Gross Square Feet
8.	35,000.00	Renovations - Utilities		
9.		Roofing	Roof Age	
10.	85,000.00	Renovations - Building Exterior		
11.		Other Permanent Improvements		
12.	20,000.00	Landscaping		
13.		Builders Risk Insurance		
14.		Other Capital Outlay		
15.		Labor Costs		
16.		Bond Issue Costs		
17.		Other		
18.	715,000.00	Contingency		
	$ 4,000,000.00	**TOTAL PROJECT BUDGET**		

6. Why is the project needed?

The purpose of this effort is to establish a permanent program for enhancing Science, Technology, Engineering, and Mathematics (STEM) education in the elementary, middle and high schools of the area. The hands-on approach to teaching is designed to help people experience the order of science as well as the interest and fun of discovery.

7. What alternatives to this project were considered?

Renovation of existing space was considered. However, this is not possible as other vital programs would have to be eliminated to construct this space. Additionally, a planetarium is such a unique structure, that a renovation of an existing space would be cost prohibitive.

9. Proposed Source of Funds

0.		Capital Improvement Bonds
1.		Departmental CIB
2.		Institution (Tuition) Bonds
3.		Revenue Bonds
4.		Excess Debt Service* ( )
5.		Capital Reserve Fund
6.		Appropriated State
7.		Federal
8.		Athletic
9.	4,000,000.00	Other* (Private
	$ 4,000,000.00	**TOTAL**

* Specify Type

10. Project Schedule
(for 2015-16 only)

A. Estimated Start Date: May 2016

B. Estimated Completion Date: August 2020

C. Estimated Total Expenditures

(1) In 2015-2016 Year $ 50,000.00

(2) After 2015-2016 Year $ 3,950,000.00

(3) Total Project Cost $ 4,000,000.00

2014 COMPREHENSIVE PERMANENT IMPROVEMENT PLAN (CPIP)

ADDITIONAL ANNUAL OPERATING COSTS/SAVINGS RESULTING FROM PERMANENT IMPROVEMENT PROJECT

1. AGENCY

CodeH29 Name USC Aiken

2. PROJECT

No. Name Ruth Patrick Science Center Expansion and Renovation

PROJECT PROPOSED FOR PLAN YEAR (Check One): 1: 2015-16 __ | 2: 2016-17 _X__

3. ADDITIONAL ANNUAL OPERATING COSTS/SAVINGS.
(Check whether reporting cost or savings.)

■ COSTS ☐ SAVINGS ☐ NO CHANGE

4.

TOTAL ADDITIONAL OPERATING COSTS/SAVINGS Projected Financing Sources				
(1)	(2)	(3)	(4)	(5)
Fiscal Year	General Funds	Federal	Other	Total
1) 2016-17	$1,200.00			$ 1,200.00
2) 2017-18	$1,200.00			$ 1,200.00
3) 2018-19	$1,200.00			$ 1,200.00

5. If "Other" sources are reported in Column 4 above, itemize and specify what the other sources are (revenue, fees, etc.).

6. Will the additional costs be absorbed into your existing budget? If no, how will additional funds be provided? ■ YES ☐ NO

7. Itemize below the cost factors that contribute to the total costs or savings reported in Column 5 for the first fiscal year.

COST FACTORS	AMOUNT
1. Energy Cost	1,200.00
2.	
3.	
4.	
5.	
6.	
7.	
8.	
TOTAL	1,200.00

8. If personal services costs or savings are reported in 7 above, please indicate the number of additional positions required or positions saved. 0

9. Submitted By: UNIVERSITY ARCHITECT 3/20/15

Signature of Authorized Official and Title Date

2015 COMPREHENSIVE PERMANENT IMPROVEMENT PLAN (CPIP)

Agency Number: H29 Name: USC Aiken

PROJECT PROPOSED FOR PLAN YEAR (Check One): 1: 2015-16___ 2: 2016-17 __

1. Project Name: Penland Building HVAC Replacement

2. Project Priority: 2 of 1 in Plan Year

3. Project Type: Renovate Existing Facilities 100 %

4. Facility Type: Academic/Administrative 100 %

5. What is the project?

The University of South Carolina Aiken is requesting $5.25M to replace the HVAC system in the Penland Administration Building , the oldest building on campus (40+ years old). The proposed project will replace the current 240 ton water cooled chiller with a new, high efficiency 250 ton (estimated) chiller, air handlers, VFDs, pumps, hot water boiler, air separator, refrigerant monitor, chemical treatment, valves, connective piping and ducts, controls and associated electric, roofing, ceiling grid, seismic bracing, and plumbing. The project estimate also includes architectural and engineering services and other appropriate documentation. The building will be required to continue to be online and operational throughout the project, so the project includes the cost of bringing in temporary equipment to maintain operations.

The total projected cost of this project is $5,250,000.00.

Attach Form C4 for additional annual operating costs or savings for each proposed new project.

6. Why is the project needed?

As stated above, the HVAC system is largely original to the building and/or reaching the end of the useful life. Further, there have been increasing issues related to moisture and humidity in the building which a new system should help address.

7. What alternatives to this project were considered?

Tuition increases over multiple years for this project is a consideration, but this approach would delay the project resulting in an increased risk of system failure and the likelihood of increased project cost.

8. Total estimated project cost:

1.		Land Purchase	Land	Acres
2.		Building Purchase	Floor Space:	Gross Square Feet
3.	315,000.00	Professional Services Fees		
4.	1,450,000.00	Equipment and/or Materials	Information Technology	$
5.		Site Development		
6.		New Construction	Floor Space:	Gross Square Feet
7.		Renovations - Building Interior	Floor Space:	Gross Square Feet
8.	2,960,000.00	Renovations - Utilities		
9.		Roofing	Roof Age	
10.		Renovations - Building Exterior		
11.		Other Permanent Improvements		
12.		Landscaping		
13.		Builders Risk Insurance		
14.		Other Capital Outlay		
15.		Labor Costs		
16.		Bond Issue Costs		
17.		Other		
18.	525,000.00	Contingency		
	$ 5,250,000.00	**TOTAL PROJECT BUDGET**		

9. Proposed Source of Funds

0.		Capital Improvement Bonds
1.		Departmental CIB
2.		Institution (Tuition) Bonds
3.		Revenue Bonds
4.		Excess Debt Service* ( )
5.		Capital Reserve Fund
6.	5,250,000.00	Appropriated State
7.		Federal
8.		Athletic
9.		Other* ( )
	$ 5,250,000.00	**TOTAL**

* Specify Type

10. Project Schedule
(for 2014-15 only)

A. Estimated Start Date: May 2016

B. Estimated Completion Date: July 2019

C. Estimated Total Expenditures

(1) In 2014-2015 Year $ 500,000.00

(2) After 2014-2015 Year $ 4,750,000.00

(3) Total Project Cost $ 5,250,000.00

2015 COMPREHENSIVE PERMANENT IMPROVEMENT PLAN (CPIP)

ADDITIONAL ANNUAL OPERATING COSTS/SAVINGS RESULTING FROM PERMANENT IMPROVEMENT PROJECT

1. AGENCY

Code H29 Name USC Aiken

2. PROJECT

No. Name Penland Building HVAC Replacement

PROJECT PROPOSED FOR PLAN YEAR (Check One): 1: 2015-16 ___ | 2: 2016-17 _X_

3. ADDITIONAL ANNUAL OPERATING COSTS/SAVINGS.
(Check whether reporting cost or savings.)

☐ COSTS ☒ SAVINGS ☐ NO CHANGE

4.

TOTAL ADDITIONAL OPERATING COSTS/SAVINGS Projected Financing Sources				
(1)	(2)	(3)	(4)	(5)
Fiscal Year	General Funds	Federal	Other	Total
1) 2016-17	$1,000.00			$ 1,000.00
2) 2017-18	$1,000.00			$ 1,000.00
3) 2018-19	$1,000.00			$ 1,000.00

5. If "Other" sources are reported in Column 4 above, itemize and specify what the other sources are (revenue, fees, etc.).

6. Will the additional costs be absorbed into your existing budget? If no, how will additional funds be provided? ☒ YES ☐ NO

7. Itemize below the cost factors that contribute to the total costs or savings reported in Column 5 for the first fiscal year.

COST FACTORS	AMOUNT
1. Energy Savings	1,000.00
2.	
3.	
4.	
5.	
6.	
7.	
8.	
TOTAL	1,000.00

8. If personal services costs or savings are reported in 7 above, please indicate the number of additional positions required or positions saved. ____0_____

9. Submitted By:

UNIVERSITY ARCHITECT 3/20/15

Signature of Authorized Official and Title Date

2015 COMPREHENSIVE PERMANENT IMPROVEMENT PLAN (CPIP)

AGENCY NUMBER: H29 NAME: USC Aiken

PROJECT PROPOSED FOR PLAN YEAR (Check One):

1: 2015-16 ___	2: 2016-17 ___	3: 2017-18 _X_	4: 2018-19 ___	5: 2019-20 ___

PRIORITY NUMBER	PROJECT NAME	ESTIMATED COST	PROPOSED SOURCE(S) OF FUNDS
1	Golf Facility	2,000,000.00	Private Funds
2	Business and Education Gym Renovation	7,000,000.00	State Appropriated ($3.5M); Private Funds ($3.5M)
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
	TOTAL	9,000,000.00	

B&CB Form C2

2015 COMPREHENSIVE PERMANENT IMPROVEMENT PLAN (CPIP)

AGENCY NUMBER: H29 NAME: USC Aiken

PROJECT PROPOSED FOR PLAN YEAR (Check One):

1: 2015-16__	2: 2016-17 ___	3: 2017-18 ___	4: 2018-19 _X_	5: 2019-20 ___

PRIORITY NUMBER	PROJECT NAME	ESTIMATED COST	PROPOSED SOURCE(S) OF FUNDS
1	New Academic Center	18,000,000.00	Appropriated State
2	Etherredge Center Expansion	30,000,000.00	Private ($25M); Appropriated State ($5M)
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
	TOTAL	48,000,000.00	

B&CB Form C2

2015 COMPREHENSIVE PERMANENT IMPROVEMENT PLAN (CPIP)

AGENCY NUMBER: H29 NAME: USC Aiken

PROJECT PROPOSED FOR PLAN YEAR (Check One):

1: 2015-16___	2: 2016-17 ___	3: 2017-18 ___	4: 2018-19 ___	5: 2019-20 _X_

PRIORITY NUMBER	PROJECT NAME	ESTIMATED COST	PROPOSED SOURCE(S) OF FUNDS
1	Library Renovation (includes Veteran's Success Center)	10,000,000.00	Appropriated State ($8.5M); Private Funds ($1M); Institutional Funds ($500,000)
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
	TOTAL	10,000,000.00	

B&CB Form C2