DESCRIPTION OF INTERIM CAPITAL PROJECT FOR CONSIDERATION

April 5, 2018

USC COLUMBIA

PROJECT NAME: Swearingen Roof Replacement REQUESTED ACTION: Establish Project (Phase I) REQUESTED ACTION AMOUNT: \$30,000 (1.5%) Internal Projected Cost: \$2,000,000 BOARD APPROVAL RECEIVED: February 2018 PREVIOUS CHE ACTIONS: N/A

DESCRIPTION:

USC Columbia requests to establish a project to replace the roof on the Swearingen Engineering Center. Swearingen is one of the largest buildings on campus, totaling 217,466 GSF, and the area of the roof is approximately 71,000 GSF. The 31-year-old roof is original to the building, and will be replaced with a PVC roof membrane, with a 20-year warranty. The scope of the project will also include new rigid insulation and will replace all the associated roof flashing at parapet, skylights, and roof-mounted equipment and piping.

This project was identified, and funds committed, during the University's most recent 5-year planning document. It is also included as priority 8 of 9 for the current fiscal year on the 2017 CPIP.

The University will be utilizing Institutional Capital Project Funds (ICPF) for this maintenance project. These funds are excess revenues generated from the portion of student fees designated for the Bond and Renovation Reserve. They are pledged for debt service first, and then any remaining funds are transferred into ICPF at the end of each fiscal year for use in capital improvement projects. Of the State Institution Bond Debt Service Fees charged to students in 2017-2018, approximately \$465, on an FTE basis, is expected to be applied to debt service payments, leaving the remainder to potentially roll in the ICPF account. ICPF is fully committed to University projects through the five and ten-year capital plans. The planned projects and use of ICPF align with the University's CPIP. Over the next five years, the University has approximately \$73.3M planned for E&G and student services projects.

E&G MAINTENANCE NEEDS:

The overall building score on the 2017 Building Condition was 75. Specifically, the ratings of the "physical condition" and "leaks" were 4. At a minimum, the overall building score will increase to a 77 and maintenance needs \$7.1M of will reduce by approximately \$951,000 if these scores are updated to 1's.

ADDITIONAL ANNUAL OPERATING COSTS/SAVINGS:

This project is not expected to impact the operating budget.

Institution Name:	USC Co	lumbia	Respondent:	Don Gibson
Building Number:	17;	3		Name
Building Name:	Swearingen Engi	neering Center	Telephone:	803-777-1083
Location:	Main Ca	ampus	E-Mail:	dgibson@fmc.sc.edu
Gross Square Feet:	217,4	166		
Year Const / Renov:	1987			
Replacement Cost:	\$47,548	8,352		
Comments:	Owned Fee Simple Roof installed 1987 Roof replacement pla	nned for 2019		

Please do no	t enter data in the	cells below this li	ine	. Begin dat	ta e	entry on Pa	ge 2.
	System Avg. Score	Multiplier		System % of Building		Current % Value Bldg.	
Foundation	3.000	0.500	х	0.13	=	0.0650	
Exterior Walls	1.125	0.975	x	0.13	=	0.1268	
Floor	1.000	1.000	x	0.07	=	0.0700	
Roof	3.000	0.500	x	0.07	=	0.0350	
Interior Walls	1.667	0.867	x	0.03	=	0.0260	
Windows	1.400	0.920	x	0.02	=	0.0184	
Doors	2.200	0.740	x	0.01	=	0.0074	
Ceiling	2.250	0.725	x	0.03	=	0.0218	
Heating	2.375	0.688	x	0.10	=	0.0688	
Cooling	2.625	0.613	x	0.10	=	0.0613	
Plumbing	2.111	0.767	x	0.08	=	0.0613	
Electrical	2.000	0.800	x	0.08	=	0.0640	
Elevators	1.667	0.867	x	0.01	=	0.0087	
Safety	1.333	0.933	х	0.05	=	0.0467	
Design Standards	2.000	0.800	x	0.09	=	0.0720	
Agency Rating:				1.00		0.753	
		Bldg. Avg.		Condition		Condition	D://
Replacement Cost:	\$47,548,352	Grade 1		Satisfactory		1.00	Difference

		Diug. Avg.	Condition	Condition		í I
		Grade	Code	Multiplier	Difference	
\$47,548,352		1	Satisfactory	1.00		
75		2	Remodel A	0.8	-0.2	
		3	Remodel B	0.5	-0.3	
\$11,887,088		4	Remodel C	0.2	-0.3	
		5	Replace	0.00	-0.2	
	\$47,548,352 75 \$11,887,088	\$47,548,352 75 \$11,887,088	\$47,548,352 <u>75</u> <u>1</u> <u>2</u> <u>3</u> <u>\$11,887,088</u> <u>4</u> <u>5</u>	\$47,548,352 75 \$11,887,088 \$11,887,088 \$11,887,088 \$11,887,088 \$11,887,088 \$11,887,088 \$11,887,088 \$11,887,088 \$11,887,088 \$12,000 \$1	\$47,548,352 1 Satisfactory 1.00 75 2 Remodel A 0.8 \$11,887,088 4 Remodel C 0.2 5 Replace 0.00	\$47,548,352 1 Satisfactory 1.00 75 2 Remodel A 0.8 -0.2 \$11,887,088 4 Remodel C 0.2 -0.3 5 Replace 0.00 -0.2

Building Name:

		_	
Foundation			Exter
1 - 2 - 3 - 4 - 5	Rating		1

1 - 2 - 3 - 4 - 5	Rating
Cracked Walls	3
Foundation Settlement	3
Foundation Deterioration	3
Design Load	3
Average	3

Swearingen	Engineering	Center

Exterior Wall System	
1 - 2 - 3 - 4 - 5	Rating
Physical Condition	2
Waterproofing	1
Caulking	1
Pointing	1
Code Compliance	1
Insulation	1
Maintainability	1
Painting	1
Average	1.125

Interior Wall System 1 - 2 - 3 - 4 - 5

Physical Condition

Strength & Stability

Acoustical Quality

Appearance Adaptability

Maintainability

Average

Rating

1

1

2

2 2

2

1.6667

Building Number: 173

Floor System	Dating
1-2-3-4-5	Rating
Structural Condition	1
Maintainability	1
Floor Finish	1
Vibration	1
Fire Rating	1
Design Load	1
Average	1

Window System 1 - 2 - 3 - 4 - 5	Rating
Physical Condition	1
Appearance	1
Functional Ability	2
Infiltration	1
Maintainability	2
Average	1.4

Roof System	
1 - 2 - 3 - 4 - 5	Rating
Physical Condition	4
Leaks	4
Drainage	3
Insulation	3
Fire Rating	2
Design Load	2
Average	3
Age of Roof Cover:	
Type of Roof Cover:	BUR
Flat:	Х
Pitched:	

Door System 1 - 2 - 3 - 4 - 5

Door Leaf

Frame Hardware

Security

Fire Rating

Average

Rating

2 2

3 2

2 **2.2**

Ceiling System 1 - 2 - 3 - 4 - 5	Rating
Structural Condition	2
Accoustical	2
Accessability	2
Appearance	3
Average	2.25

Heating System	
1 - 2 - 3 - 4 - 5	Rating
Heating Capacity	2
Temperature Control	3
Noise Level	2
Air Circulation & Vent	3
Reliability	3
Reasonable Energy	
Consumption	2
Filtration	2
Humidity	2
Average	2.375
Age of System:	
Heating Capacity-BTUs:	

	r
Cooling System	
1 - 2 - 3 - 4 - 5	Rating
Cooling Capacity	2
Reasonable Energy	
Consumption	3
Temperature	3
Noise Level	3
Air Circulation & Vent	3
Reliability	3
Filtration	2
Humidity	2
Average	2.625
Age of System:	
Cooling Capacity-Tons:	

Plumbing System	
1 - 2 - 3 - 4 - 5	Rating
Water Pressure &	
Supply Quantities	2
Sanitation Hazards or	
Cross Functions	2
Drain & Waste Function	2
Fixture Quantities	3
Fixture Types & Cond.	2
Wheel Chair Fixtures	2
Restroom Facilities	2
Roof Drainage	2
Site Drainage	2
Average	2.1111

Electrical System	
1 - 2 - 3 - 4 - 5	Rating
Safety Conditions	2
Service Capacity	2
Panel Capacity	2
Convenience Outlets	2
Light Levels	2
Fixtures	2
Emergency Power	2
Exit Lighting	2
Average	2

1 - 2 - 3 - 4 - 5 R Size & Number	
Size & Number	ating
Size & Number	
	3
Maintainability	1
Code Compliance	1
Average 1	.6667

Safety Standards	
1 - 2 - 3 - 4 - 5	Rating
Means of Egress	2
Fire Ratings	1
Extinguishing Systems	1
Detection & Alarm Sys.	1
Lighting Systems	1
Handicap Access	2
Average	1.3333

Design Standards	Rating
12010	rtating
Flexible Design	2
Suitable for Present Use	2
Gross to Assignable Area	2
Average	2

	FOR DEPARTMENT US CHE JBRC JBRC Staff	PERMA	VENT IMPROVEME	NT PROJECT	F REQUE	(For Dep SUMM FOR	artment Use Only) ARY NUMBER IM NUMBER	
	ACENICY					-		
1.	Code <u>H27</u> Name USC	Columb	ia					
	Contact Person Derek S Gruner					Phone	(803)777-1184	
2.	PROJECT	onincilia E	Poof Daylo comont					
	Project # Name			-				
	Facility # Facility N	ame	Swearingen Engineerin	g Center				ai 'a
	County Code do Pie	hland		Project T	4100.4	3 - Repair/Reportate D	ristina Facilities/System	7
	New/Revised Budget	\$30,0	00.00	Facility I	ype ype	2 - Program/Academic		-
4.	CPIP priority number 8 PROJECT ACTION PROPOSED (In	dicate all	of 9	for FY	17/18 propriate be	.· oxes.)		
	Establish Project	×	Decrease Budget			Close Project		
	Increase Budget		Revise Scope	105		Cancel Project	t Name	
5.	PROJECT DESCRIPTION AND JUS (Explain and justify the project or rev Attach supporting doucmentation/map ACTION: Establish Project DESCRIPTION: The project will re rigid insulation and include the repla equipment and piping. The new root JUSTIFICATION: The existing roo	TIFICAT ision, inc is to fully move an cement c f system f is 31 ye	YON luding what it is, why convey the need for the d replace the existing of all associated roof f will provide a twenty- ears old and is at the e	it is needed, an he request.) original roof a lashing at para year warranty nd of its usefu	d any alter and provid apets, skyl '. I life.	natives conside e a new PVC i ights, and roof	ered. roof membrane, new f-mounted mechanica	, al
	BUDGET: \$2,000,000							
6.	OPERATING COSTS IMPLICATION Attach Form A-49 if any additional op absorbed with current funding.	√S perating c	osts or savings will res	sult from this re	equest. Thi	is includes cost	to be	
7.	ESTIMATED PROJECT SCHEDULE Estimated Start Date: Jan Estimated Expenditures: Thru Currer	E AND EX aury 2011	XPENDITURES 3 Estima \$30,000,00	ated Completio	n Date:	At	igust 2020	
	-							

ESTIMATES OF NEW	REVISED PROJECT (COSTS		l	PRO	IECT #		
1.	Land Purchase>		Land:		Acres			
2	Building Purchase>		Floor Space:		Gross Squar	re Feet		
3	Professional Services Fe	es	T.C. (L. Washerste					
4	Equipment and/or Mater	'lals>	Information Technolo	gy				
5	New Construction>		Floor Space:		Gross Squar	re Feet		
7	Renovations - Building I	nterior>	Floor Space:		Gross Squar	re Feet		
8.	Renovations - Utilities						<u> </u>	
9.	Roofing Roo	of Age						
10.	Renovations - Building H	Exterior		l - l - l	NVIRON	MENTAL HAZ	CARDS	
11	Other Permanent Improv	rements		Identify	all types of sig	nificant environm	ental hazar	rde
12.	Landscaping Duildars Rick Insurance			(includin	g asbestos, PC	(B's, etc.) present	in the proje	oct
13.	Other Canital Outlay			and the f	inancial impac	t they will have o	on the proje	ct.
15.	Labor Costs			Type:	_			_
16.	Bond Issue Costs			_				_
17.	Other:			Cost Brea	<u>akdown</u>	5		
18	Contingency			Design Se	ervices	<u> </u>		-
				Monitorii	ıg	3		_
\$30,000,00	TOTAL PROJECT BUID	GET		Abate/Re	med	S		
\$30,000.00	TOTAL PROJECT BUD	OGET		Abate/Re Total Cos	med sts	<u>s</u>	0.00	_
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\$30,000.00 PROPOSED SOURCE	TOTAL PROJECT BUD OF FUNDING Presiously	OGET	Original/Revised	Abate/Re Total Cos Transfer tu/from	Rev Chject	S 5 Treasurer's	0.00 Rev Sub	Exp
\$30,000.00 PROPOSED SOURCE	TOTAL PROJECT BUD OF FUNDING Previously Approved Amount II	DGET nerease/Decrease	Original/Revised Budget	Abate/Re Total Cos Transfer to/from Proj. #	Rev Chject Code 8115	S S Treasurer's ID Number	0.00 Rev Sub Fund 3043	Exp Sub Fun 304
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\$30,000.00 PROPOSED SOURCE Source (0) CIB, Group (1) Dept. CIB, Group (2) Institution Bonds (3) Revenue Bonds (4) Excess Debt Service	TOTAL PROJECT BUD OF FUNDING Presiously Approved Amount In	DGET пстеазе/Лестеаse	Original/Revised Budget 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	Abate/Re Total Cos Transfer to/from Proj. #	Rev Object Code 8115 8115	S S Treasurer's ID Number	0.00 Rev Suh Fund 3043 3143	Exp Snt Fun 304 314 323 339 349
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\$30,000.00 PROPOSED SOURCE Source (0) CIB, Group (1) Dept. CIB, Group (2) Institution Bonds (3) Revenue Bonds (4) Excess Debt Service (5) Capital Reserve Fund	TOTAL PROJECT BUD OF FUNDING Previously Approved Amount In	DGET ncrease/Decrease	Original/Revised Budget 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	Abate/Re Total Cos Transfer to/from Proj. #	med sts Rev Chject Code 8115 8115 8115 8815	S S Treasurer's ID Number	0.00 Rev Sub Fund 3043 3143 3143	Exi Sn1 Fun 304 314 323 339 349 360
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Signature of	of Authorized	Official and	Title
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Date

4335

88800100

98800100

7262

11. APPROVED BY: (For Department Use Only)

10. SUBMITTED BY:

(8) Athletic

(9) Other (Specify) ICPF

TOTAL BUDGET

Authorized Signature and Title

30,000.00

\$30,000.00

\$0.00

Date

Revised 3/30/16

3807

3907

0.00

0.00

0.00

0.00 0.00

30,000.00

\$30,000.00

Director, Planning and Programming

DO UNOT			×*****	
PROJECT Project #	Name Sw	earingen Roof Repla	cement	
ADDITIONAL A	NNUAL OPERATING (COSTS/SAVINGS. (Check whether reporti	ng costs or savings.)
		[]	ر <u>ت</u> ا ا	0
	COSTS	SAVINGS	X NO C	HANGE
	TOTAL ADDI	TIONAL OPERATIN	G COSTS/SAVINGS	
	F	Projected Financing S	ources	
(1)	(2)	(3)	(4)	(5)
Fiscal Year	General Funds	Federal	Other	Total
1)	\$	\$	\$	\$ 0.00
2)	\$	\$	\$	\$ 0.00
1				
3) f "Other" sources Vill the additional f no, how will add	\$ are reported in Column 4 costs be absorbed into y litional funds be provided	\$ 4 above, itemize and s our existing budget? 1?	specify what the other	\$ 0.00 sources are (revenues YES NO
3) f "Other" sources Will the additional f no, how will add temize below the	s are reported in Column 4 costs be absorbed into y litional funds be provided	\$ 4 above, itemize and s our existing budget? d? te to the total costs or	specify what the other	\$ 0.00 sources are (revenues YES NO
3) f "Other" sources Will the additional f no, how will add temize below the iseal year.	\$ are reported in Column 4 costs be absorbed into y litional funds be provided cost factors that contribut <u>COST FACTORS</u>	\$ 4 above, itemize and s our existing budget? 1? te to the total costs or	specify what the other	\$ 0.00 sources are (revenues YES NO
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3) f "Other" sources Will the additional f no, how will add temize below the iscal year.	\$ are reported in Column 4 costs be absorbed into y ditional funds be provided cost factors that contribut COST FACTORS	\$ 4 above, itemize and s our existing budget? 1? te to the total costs or	specify what the other	\$ 0.00 sources are (revenues YES NC ve in Column 5 for the AMOUNT
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3) f "Other" sources Will the additional f no, how will add temize below the iscal year.	\$ are reported in Column 4 costs be absorbed into y litional funds be provided cost factors that contribut COST FACTORS	\$ 4 above, itemize and s our existing budget? 1? te to the total costs or	specify what the other	\$ 0.00 sources are (revenues YES NC ve in Column 5 for the AMOUNT

PERMANENT IMPROVEMENT PROJECT INFORMATION FORMAT FOR PHASE I A&E PRE-DESIGN PROJECTS

Swearingen Roof Replacement

1. What is the internal projected cost of the project?

The total internal projected cost for this project is \$2,000,000.

2. What is/are the source(s) of funds to be used for A&E pre-design?

The source of funds for A&E pre-design are Institutional Capital Project Funds.

3. What is your agency/institution's definition of the source(s) of funds used for the A&E pre-design? (Please be specific for each source and if there is a statutory authority authorizing the use of the funds for capital projects for the source, please cite the code section. If a source includes any type of fee, what is the fee called, what is the fee amount and when was it put in place?)

Institutional Capital Project Funds are generated from the portion of tuition and fees designated for Bond and Renovation Reserve. These funds pay debt service first and the remainder is used for capital improvements.

4. What is the current fund balance of uncommitted funds in the source of funds for A&E pre-design?

Institutional Capital Project Funds currently have an uncommitted balance of \$2,000,000 available for use in funding this project.

5. What is the source(s) of funds to be used for construction?

Institutional Capital Project Funds

6. What is your agency/institution's definition of the source(s) of funds to be used for construction? (Please be specific for each if different from those in 3 above. If there is statutory authority authorizing the use of the funds for capital project, please cite the code section and if a source includes a fee, what is the fee called, what is the fee amount and when was it put in place?)

Institutional Capital Project Funds are generated from the portion of tuition and fees designated for Bond and Renovation Reserve. These funds pay debt service first and the remainder is used for capital improvements.

7. What is the current fund balance of uncommitted funds in each source to be used for construction?

Institutional Capital Project Funds currently have an uncommitted balance of \$2,000,000 available for use in funding this project.

8. Will the use of any funds for A&E pre-design or for construction require an increase in any student fee or tuition?

No increase in student fees is required.

9. If the use of any funds for A&E pre-design or construction will require any student fee or tuition increase, please explain and include the amount of the fees annually or by semester, what the fee is called and when it was put in place.

The question is not applicable to this project.

10. What is the total square footage of the building to be renovated or constructed?

The total square footage of Swearingen Engineering Center is 217,466 gross square feet.

11. If a portion of the building is to be renovated, what is the square footage of the portion that will be included in the renovation?

The area of the Swearingen roof is approximately 71,000 gross square feet.

12. What program(s) will use the space to be renovated/constructed?

College of Engineering and Computing

13. What is the current age of the building to be renovated?

Swearingen Engineering Center was originally constructed in 1987.

14. What is the current age of the building system(s) to be renovated or replaced?

31 years

15. If any new space is being added to the facility, please provide demand/usage data to support the need.

No new space is being added to the facility.

16. If the A&E pre-design request is above 1.5% of the internal estimated cost of the project, what is the reason the amount exceeds 1.5%?

The A/E pre-design request is not above 1.5%.

17. What are the estimated numbers of students, faculty, staff and/or clients that are expected to use the space affected by the project or for the entire building? (Answer for as many as are applicable.)

Estimated students that will use the space is based on the College of Engineering and Computing which has a population of 850 students. The building has classrooms, faculty offices, and administrative space.

18. Has the project been included in a previous year's CPIP? If so, what was the last year the project was included and for which year, 1-5?

The project is included in Year 1 of the 2017 CPIP. It was listed as priority number 8 of 9.

19. What are the economic impacts of the project, including job creation and retention? If there are none, please explain.

This project will provide economic activity through the construction project itself. Construction creates and/or retains jobs in three ways: 1) it creates direct jobs that are involved in the construction project; 2) it creates indirect jobs through the manufacturing of building materials and systems and the provision of key services in areas like design professions, legal, and accounting services; and 3) it creates induced jobs in other service areas whereby income from the first two categories is spent on goods and services in other areas of the economy. It is estimated that this project will generate 40 jobs.

20. How will your agency/institution address and fund maintenance of this facility construction/renovation?

Maintenance will be funded from the Education and General Maintenance Reserve.

21. If your agency/institution has a deferred maintenance account, what is the name of the account and what is its current uncommitted balance?

Education and General Maintenance Reserve. At this time, there is no uncommitted balance in the E&G Maintenance Reserve Fund account after factoring in all planned projects. The E&G Maintenance Reserve Fund is replenished annually.

22. If how maintenance will be addressed and funded for this facility construction/renovation has not been determined yet, what steps are in place to begin to address how your agency/institution will fund maintenance to this and other agency/institution facilities?

The funding of maintenance is described in the answers to questions 20 and 21.