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February 20, 2015

California Polytechnic State University, San Luis Obispo

Project: ASC 2015- Sustainable Building & LEED Problem Statement

Subject: Final Scoring Detail

Dear Antonio,

Congratulations on competing in the ASC 2015 Sustainable Building & LEED Problem Statement, I hope you found the experience both educational and enjoyable. We understand how much effort goes into preparing for the competition every year and to your credit the level of preparation showed, the judges were extremely impressed with the level of competition this year:

Team	Score
University of Florida	78.08
Colorado State University	76.40
University of Washington	71.80
University of New Mexico	63.51

Attached is a scoring summary sheet detailing how well your team performed on: the prequalification, each of the five problems and the addendum. The median and average scores of each problem are given for comparison. The total median and average scores for the written portion of the problem statement are shown at the top of the sheet along with your team's total score. In the upper right of the sheet your team's rank against the other competitors is shown for both the written and oral portions of the competition. The last pages detail a breakdown of how the judges scored your team on each written problem.

The Skanska problem statement team enjoyed the competition this year and we hope to see you all back for next year's event. If you have any questions please feel free to contact me at Anthony.spinelli@skanska.com.

Very Truly,

Anthony J. Spinelli

Anthony J. Spinelli
Project Manager

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cc: ASC 2015 Problem Scoring

		Median Score	Average Score	CalPoly - SLO
83	Totals	50.95	48.30	40.50

Prequalification 5

	Maximum Possible	Median Score	Average Score	CalPoly - SLO
Number of AP on Team	1			0.60
Format	1			1.00
Sustainable Thoughts	1			0.75
Green Achievements	1			0.50
Page Count	1			1.00
Prequalification Totals		3.25	3.13	3.85

Rank Against Other Teams

Written Response:	Bottom Third
Oral Presentation:	Middle Third
Overall Score:	Bottom Third

LEED Credit Comparison 10

	Maximum Possible	Median Score	Average Score	CalPoly - SLO
Overall Project Review	3			1.65
Materials Category	2			1.75
Recommendation of Rating System	5			2.00
LEED Credit Comparison		4.45	4.86	5.40

On-Site Renewable 20

	Maximum Possible	Median Score	Average Score	CalPoly - SLO
Solar Panel Design	12			10.00
Additional Renewable	6			4.00
Alternate Energy Sources	2			0.50
On-Site Renewable		14.00	13.03	14.50

Life Cycle Analysis 15

	Maximum Possible	Median Score	Average Score	CalPoly - SLO
Annual Energy Use	2			2.00
Life Cycle Analysis	6.5			4.50
Subcontractor Selection	2			-
Incentives & Rebates	3.5			1.50
Fixture Recommendation	1			1.00
Life Cycle Analysis		10.00	9.50	9.00

Carbon Footprint 15

	Maximum Possible	Median Score	Average Score	CalPoly - SLO
Bid Comparison	10			2.50
Local vs. Out of Town	5			1.50
Carbon Footprint		10.50	9.17	4.00

Water Collection and Use 15

	Maximum Possible	Median Score	Average Score	CalPoly - SLO
Irrigation Consumption	6			2.00
Rain Water Collection	6			0.50
Cistern	3			0.25
Water Collection and Use		6.75	7.08	2.75

Addendum 3

	Maximum Possible	Median Score	Average Score	CalPoly - SLO
Bonus Questions - Estimated Ridership 64000	1			-
Bonus Questions - Gallons Saved 11000 (27000)	1			-
Bonus Questions - Improve Ridership	1			1.00
Formatting	-5			-
Exceeded Page Count	-10			-
Addendum Totals		2.00	1.53	1.00

Problem #1 - LEED 2009 vs. LEED v4 Assesment

10 Total Points Possible		CAL POLY, SAN LUIS OBISPO
PART 1: Overall Project Review	3 Pts Possible	1.65
SS - 2009	0.2	0.05
WE - 2009	0.2	0.15
EA - 2009	0.2	0.1
MR - 2009	0.2	0.15
IEQ - 2009	0.2	0.1
IDP - 2009	0.2	0.2
RPC - 2009	0.2	0.2
LT - v4	0.2	0.05
SS - v4	0.2	0.05
WE - v4	0.2	0.05
EA - v4	0.2	0.05
MR - v4	0.2	0.1
IEQ - v4	0.2	0
Innovation - v4	0.2	0.2
RP - v4	0.2	0.2
Comments		
PART 2: Materials Category	2 Pts Possible	1.75
Credits of the future: do they mention all 3 credits and fully describe what each entails?	1	1
Did they research what needs to happen to accomplish credits of the future (EPDs, 3rd party certified products, "USGBC approved program")	0.25	0
Mention of MR credits being combined	0.75	0.75
Comments		
PART 3: Recommendation of Rating System	5 Pts Possible	2
Two or More Innovative Ideas	2	0
Are the innovative ideas realistic/attainable?	1	0.5
Were the innovative ideas explained well, easily understood?	1	1
Convincing	1	0.5
Comments		
	10	5.4

15 Total Points Possible

		Cal Poly
Problem # 2 - Life Cycle Sustainability Analysis - Lighting		
#1.a Correct light fixture take-off QTY	1	1
#1.b Use correct LA County power/cost formula (22.3)	0.5	0.5
#1.c Answer	0.5	0.5
#2.a Complete detailed life cycle analysis	3	2
#2.b Identify criteria and formaula used	3	2
#2.c Organization of answer/data	0.5	0.5
#3.a Select correct subcontractor	2	0
#4.a Quality of incentives/rebates (1 pt ea. - max of 3)	3	1
#4.b Organization of answer/findings	0.5	0.5
#5.a Correct selection of light fixture	1	1
	15	9

Cochran wrong subcontractor

The information was able to be followed, however the wrong conclusions resulted

		15 Total Points Possible	Cal Poly SLO
Problem #3 - 4th St. Station Carbon Footprint			
Part I #1	Takeoff of Concrete CY	1.5	0
Part I #2	Bid comparison / least expensive	2.5	1
Part I #3	Carbon Footprint of each supplier / lowest	4	0.5
Part I #4	Best value supplier	2	1
Part II #1	Carbon footprint of crew	2	0.5
Part II #2	Carbon footprint of crew - local	1.5	0.5
Part II #3	Carbon footprint of crew - carpool	1.5	0.5
	Total	15	4

Notes

Pt 1 # 2 - did not include tax
Pt I # 3 - did not show enough work or state assumptions. Aggregates are from British Columbia

Pt II # 1 - did not show work

Pt II # 2 - did not state savings

15 Total Points Possible

Cal Poly SLO

Problem #4 - Water Usage and Collection		
#1. a) Forumula	2	0
#1 b) ET_O	1	0.5
#1.c) Landscaped Areas	1	0.5
#1.d) Answer	1	0.5
#1.e) Organization	1	0.5
#2.a) Rainfall data by month	1	0
#2.b) Rainwater Collection Formula	1.5	0.5
#2.c) Collection Area	1.5	0
#2.d) Answer - Size of Cistern	1	0
#2.e) Organization	1	0
#3.a) Volume Calculation	0.5	0.25
#3.c) Graph/Method	1.5	0
#3.a) Answer & Organization	1	0
	15	2.75

Missed part of landscaping area

assumed same ET for all months

didn't analyze rainwater/irrigation by month
didn't calculate cistern volume correctly
no equations

20 Total Points Possible

Cal Poly

	Problem #5 - Onsite Renewable Energy			
#1.a	Correct quantities	2	2	
	Work is shown, correct equation is used	2	2	
	Marked up drawing is accurate and realistic	1	1	Good job accounting for the roof equipment. Questionable orientation
#1.b	Work is shown and is correct	1	1	
	Acknowledged factors other than initial cost	1	0	
	Narrative is clear and illustrates the rationale	2	1	Need more detail
#1.c	i. Correct direction	1	1	
	ii. Correct angle	1	1	
	iii. Correct dates	0.5	0.5	
	iii. Correct angles	0.5	0.5	
#2a.	Product chosen, with cost and quantity	2	2	
#2.b.	cost of panel support structure	1	0.5	
#2.c	payback period, and cost assumptions	2	1	
#2.d	Projected cost of maintenance	1	0.5	Need reference to how maintenance is calculated
#3.a	Response is clear, concise, and realistic	0.5	0	Doesn't address project
#3.b	Response is clear, concise, and realistic	0.5	0.25	
#3.c	Response is clear, concise, and realistic	0.5	0	
#3.d	Response is clear, concise, and realistic	0.5	0.25	
		20	14.5	