

Design Submittal Sustainability Report : Concepts



Project Information	
Project Name	Sacramento Kings Arena
Project Address	
AECOM Project Number	

Report Information	
Report Date	9/18/2013
Project Phase	Concepts

Project Team Info	Contact	Company
Owner		Sacramento Kings
Project Manager		ICON Venue Group
General Contractor		Turner Construction
LEED Consultant		AECOM
Architect		AECOM
Mechanical Engineer		AECOM
Civil Engineer		AECOM
Electrical Engineer		AECOM
Landscape Architect		AECOM
Commissioning Agent		AECOM
Contractor		
Specialist Consultant		
Specialist Consultant		

Sustainability Goals	Target	Actual
Energy Reduction	30.0%	-
Water Reduction	35.0%	-
% On-site Renewables	1.0%	-
Lighting Power Density	0.0%	-
Recycled Content	20.0%	-
Regional Materials	10.0%	-
Certified Wood	0.0%	-
Construction Waste	95.0%	-

LEED Information		
LEED Online Reference #		
Total Project Cost		
Total Building sq ft		
Full Time Equivalent		
LEED Certification - BD&C	TARGET	ANTICIPATED
	GOLD	GOLD

LEED Design Phase Schedule	Target	Actual	Comments	LEED Construction Phase Schedule	Target	Actual	Comments
Concepts LEED Review				LEED Kick-Off Meeting			
OPR / BOD Review				Submittal LEED Review			
SD Submittal LEED Review				Construction IAQ Management Plan Review			
DD Submittal LEED Review				Construction Waste Management Plan Review			
Specification LEED Review / Development				Commissioning Plan Review			
CD Submittal LEED Review				Construction Application Submittal			
Design Application Submittal				Construction Clarifications Received			
Design Clarifications Received				Construction Clarifications Submitted			
Design Clarifications Submitted				Construction Final Review Received			
Design Final Review Received				Construction Final Review Accepted			
Design Final Review Accepted							

Design Phase LEED Review Summary	Targeted		Submitted			Approved		
	Yes	No	Yes	No	Deferred	Clarified	Rejected	
Sacramento Kings Arena	0	0	TBD	TBD	TBD	TBD	TBD	TD
Construction Phase LEED Review Summary	Targeted		Submitted			Approved		
	Yes	No	Yes	No	Deferred	Clarified	Rejected	
Sacramento Kings Arena	0	0	TBD	TBD	TBD	TBD	TBD	TBD

LEED Point Summary	Y	Likely	Unlikely	N	Point total change since last issue
Sustainable Sites	22	2	2	0	
Water Efficiency	5	2	3	0	
Energy and Atmosphere	14	4	17	0	
Materials and Resources	5	1	1	7	
Indoor Env. Quality	9	2	2	2	
Innovation in Design	6	0	0	0	
Regional Priority	3	0	1	0	

Points Total	64	11	26	9
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Yes	Probably	Unlikely	No
64	41	26	4

Project Totals (Pre-certification Estimate)

Certification Target	GOLD
Anticipated	GOLD

Certified: 40-49
 Silver: 50-59
 Gold: 60-79
 Platinum: 80-110

Project Req Credits				22	2	2	0	Project Req Credits
Sustainable Sites								
								SSp1 Construction Activity Pollution Prevention
1	0	0	0					SSc1 Site Selection
0	0	0	0					SSc2 Development Density & Community Connectivity
1	0	0	0					SSc3 Brownfield Redevelopment
0	0	0	0					SSc4.1 Alternative Transportation Public Transportation Access
1	0	0	0				R	SSc4.2 Alternative Transportation Bicycle Storage & Changing Rooms
0	0	0	0					SSc4.3 Alternative Transportation Low-Emitting & Fuel-Efficient Vehicles
2	0	0	0					SSc4.4 Alternative Transportation Parking Capacity
0	0	1	0					SSc5.1 Site Development Protect or Restore Habitat
0	1	0	0					SSc5.2 Site Development Maximize Open Space
0	1	0	0				R	SSc6.1 Stormwater Design Quantity Control
1	0	0	0				R	SSc6.2 Stormwater Design Quality Control
1	0	0	0					SSc7.1 Heat Island Effect Non-Roof
1	0	0	0					SSc7.2 Heat Island Effect Roof
0	0	1	0				0	SSc8 Light Pollution Reduction
5	2	3	0					
Water Efficiency								
Prereq 1 Water Use Reduction								
2	2	0	0				R	WEc1 Water Efficient Landscaping Reduce by 50%, 100%
0	0	2	0					WEc2 Innovative Wastewater Technologies
1	0	1	0				R	WEc3 Water Use Reduction, 30%; 35%; 40% Reduction
14	4	17	0					
Energy and Atmosphere								
EAp1 Fundamental Commissioning								
EAp2 Minimum Energy Performance								
EAp3 Fundamental Refrigerant Management								
0	0	0	0				R	EAc1 Optimize Energy Performance
1	0	0	0					EAc2 On-Site Renewable Energy
0	0	2	0				R	EAc3 Enhanced Commissioning
0	2	0	0				R	EAc4 Enhanced Refrigerant Management
1	0	0	0					EAc5 Measurement & Verification
0	2	0	0					EAc6 Green Power

Project Req Credits				5	1	1	7	Project Req Credits
Materials and Resources								
								MRp1 Storage & Collection of Recyclables
0	0	0	0					MRc1.1 Building Reuse Maintain 55%; 75%; 95% of Existing Walls, Floors & Roof
0	0	0	0					MRc1.2 Building Reuse Maintain Interior Non-Structural Elements
2	0	0	0				R	MRc2 Construction Waste Management Divert 50%; 75% from Disposal
0	0	0	2					MRc3 Materials Reuse 5%; 10%
2	0	0	0				0	MRc4 Recycled Content 10%; 20%
1	1	0	0					MRc5 Regional Materials 10%; 20%
0	0	0	1					MRc6 Rapidly Renewable Materials
0	0	1	0					MRc7 Certified Wood
0	2	2	2					
Indoor Environmental Quality								
IEQp1 Minimum IAQ Performance								
IEQp2 Environmental Tobacco Smoke (ETS) Control								
1	0	0	0					IEQc1 Outdoor Air Delivery Monitoring
1	0	0	0					IEQc2 Increased Ventilation
1	0	0	0				R	IEQc3.1 Construction IAQ Management Plan During Construction
1	0	0	0					IEQc3.2 Construction IAQ Management Plan Before Occupancy
1	0	0	0				R	IEQc4.1 Low-Emitting Materials Adhesives & Sealants
1	0	0	0				R	IEQc4.2 Low-Emitting Materials Paints & Coatings
1	0	0	0				R	IEQc4.3 Low-Emitting Materials Flooring Systems
1	0	0	0				R	IEQc4.4 Low-Emitting Materials Composite Wood & Agrifiber Products
0	1	0	0					IEQc5 Indoor Chemical & Pollutant Source Control
0	0	1	0					IEQc6.1 Controllability of Systems Lighting
0	0	1	0					IEQc6.2 Controllability of Systems Thermal Comfort
0	1	0	0				R	IEQc7.1 Thermal Comfort, Design
1	0	0	0					IEQc7.2 Thermal Comfort, Verification
0	0	0	1					IEQc8.1 Daylight & Views, Daylight 75% of Spaces
0	0	0	1					IEQc8.2 Daylight & Views, Views for 90% of Spaces
0	0	0	0					
Innovation & Design								
1	0	0	0					IDc1.1 Innovation in Design: TBD
1	0	0	0					IDc1.2 Innovation in Design: Green Education
1	0	0	0					IDc1.3 Innovation in Design: SSc4.1
1	0	0	0					IDc1.4 Innovation in Design: Integrated Pest Management Plan
1	0	0	0					IDc1.5 Innovation in Design: Green Cleaning
1	0	0	0				R	IDc2 LEED Accredited Professional
3	0	1	0					
Regional Priority								
1	0	0	0					RPc1.1 Regional Priority: EAc4.1
1	0	0	0					RPc1.2 Regional Priority: SSc7.1
1	0	0	0					RPc1.3 Regional Priority: EAc2.1
0	0	1	0					RPc1.4 Regional Priority: WEc2 or WEc3 @ 40%

LEED Credit Strategies



Name of Project:	Sacramento Kings Arena
Project Phase	Concepts
Date:	9/18/2013
Prepared By:	A. MacGregor
Checked By:	C. Snee

Credit Reference Legend	
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Credit Reference	Project Req Credits Available	Credits	Yes	Likely	Unlikely	LEED Submittal	Credit Strategy	Responsibility		Documented & Uploaded	
								Confirmation	Documentation		
Sustainable Sites											
SSp1	Construction Activity Pollution Prevention	R	Req	1	0	0	C	Incorporate requirements for C.A.P.P into design package.	Civil Engineer /Contractor	Civil Engineer /Contractor	No
SSc1	Site Selection		1	1	0	0	D	The site is in a compliant location and will not negatively impact habitat, water bodies, wetlands, farmland, or parkland. Document as a Campus Credit.	LEED Consultant	LEED Consultant	No
SSc2	Development Density & Community Connectivity		5	5	0	0	D	Project appears to be compliant as there are over ten public amenities and residential zones with greater than one unit per acre.	LEED Consultant	LEED Consultant	No
SSc3	Brownfield Redevelopment		1	1	0	0	D	Initial investigations suggest that it is brownfield site.	LEED Consultant / Contractor	LEED Consultant	No
SSc4.1	Alternative Transportation - Public Transportation Access		6	6	0	0	D	There are multiple public bust stops within .25 miles from the site. Need to confirm if there is a Transportation Management Plan (TMP) as wit will help aid in ID credit documentation.	LEED Consultant / Architect	LEED Consultant	No
SSc4.2	Alternative Transportation - Bike Storage and Changing	R	1	1	0	0	D	Stadium's and Arena's typically use a Bike Valet approach per CIR ruling 5802. To determine bike parking demand, conduct a survey of existing ticket holders and staff or consult a local bike advocacy organization. The project team must also	LEED Consultant / Architect	LEED Consultant / Architect	No
SSc4.3	Alternative Transportation - Low-Emitting Vehicles	R	3	3	0	0	D	Provide low emitting and fuel efficient vehicles for 5% of the total parking spaces or provide electric vehicle charging stations for 3% of the total parking spaces. Coordinate with CALGreen Req. If EV charging, need to provide 1 ADA compliant	LEED Consultant / Architect	LEED Consultant / Architect	No
SSc4.4	Alternative Transportation - Parking Capacity	R	2	2	0	0	D	Parking must not exceed minimum zoning requirements and 5% of the total spaces must be designated as carpool spaces. Document as a Campus Credit. Coordinate with CALGreen Req.	LEED Consultant / Architect	Architect	No
SSc5.1	Site Development - Protect or Restore Habitat		1	0	0	1	C	Confirmation of the open space design is needed. The plant palette must include vegetation options for open space areas and bioswales that are either native or adaptive and promote habitat restoration.	LEED Consultant / Landscape Arch	Landscape Architect	No
SSc5.2	Site Development - Maximize Open Space		1	0	1	0	D	Confirm if there is an Open Space zoning requirement. Confirmation of the open space design is needed. Elevated Green open space at roof levels can contribute.	LEED Consultant / Architect	Landscape Architect / Owner	No
SSc6.1	Stormwater Design - Quantity Control	R	1	0	1	0	D	Confirm Sacramento requirements for combined sewer system. Confirmation of the stormwater strategy is needed. Rainwater capture may help in reducing stormwater runoff and also help to reduce the potable water demand of the building.	Civil Engineer / Landscape Architect	Civil Engineer	No
SSc6.2	Stormwater Design - Quality Control	R	1	1	0	0	D	Confirm Sacramento requirements for combined sewer system. Confirmation of the stormwater strategy is needed. Civil engineer to confirm if structural BMPs alone satisfy the requirements?	Civil Engineer	Civil Engineer	No
SSc7.1	Heat Island Effect - Non-Roof		1	1	0	0	C	A parking garage will be constructed to support the parking needs of the site so the project will comply by shading more that 50% of the parking spaces.	LEED Consultant / Civil Engineer	Civil Engineer	No
SSc7.2	Heat Island Effect - Roof		1	1	0	0	D	Design roof to leverage a SRI compliant roof color and material	Architect	Architect	No
SSc8	Light Pollution Reduction		1	0	0	1	D	Confirm Sacramento code requirements. Comply with lighting power requirements in the California Energy Code, CCR, Part 6. LEED Requirements and CALGreen requirements are different.	Electrical Engineer	Electrical Engineer	No
Section Total			26	22	2	2					

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								Confirmation	Documentation		
Water Efficiency											
WEp1	Water Use Reduction	R	Req	1	0	0	D	Water conservation strategies for the facility will include the use of water efficient plumbing fixtures. Specify 1.28 toilet, .125gpf urinal or waterless urinals, .4 gpm lavatory faucets, 1.5gpm kitchen sink, 1.5gpm shower.	Plumbing Engineer	Plumbing Engineer	No
WEc1	Water Efficient Landscaping - Reduction by 50%; 100%	R	4	2	2	0	D	Landscape Architect to confirm if vegetation will require permanent irrigation. Goal is to minimize irrigation need and potentially leverage non-potable water source.	Landscape Architect	Landscape Architect	No
WEc2	Innovative Waste Water Technologies		2	0	0	2	D	Utilize a grey water reuse or rainwater to flush toilets and urinals. It may be possible to achieve the credit if grey water is used to only flush a certain percentage of toilets. Consider Living Machine.	Plumbing Engineer	Plumbing Engineer	No
WEc3	Water Use Reduction -30%; 35%; 40% reduction	R	4	3	0	1	D	Preliminary calculations indicate that the project will reduce the building water consumption by just over 35%. Shower should be provided for staff in addition to the showers in the locker rooms.	Plumbing Engineer	Plumbing Engineer	No
Section Total			10	5	2	3					

Energy and Atmosphere											
EAp1	Fundamental Commissioning	R	Req	0	0	0	C	CalGreen commissioning services will be provided for the project.	CxA	CxA	No
EAp2	Minimum Energy Performance	R	Req	0	0	0	D	See EAc1. A variety of ECMs are being considered such as increased daylighting, occupancy & daylight sensors, building envelope, VAV, and cooling tower.	Energy Modeler	Energy Modeler	No
EAp3	Fundamental Refrigerant Management	R	Req	0	0	0	D	Compliant refrigerants will be required.	Mechanical Engineer	Mechanical Engineer	No
EAc1	Optimized Energy Performance (12-48% by units of 2)	R	19	10	0	9	D	The project should strive to perform at least 30% better than baseline. Code requirement is 15% better than Title 24 2012, which is approximately 25 - 30% better than ASHRAE 90.1 2007. Enhanced PV and / or CoGen could push the number of achievable points.	Energy Modeler	Energy Modeler	No
EAc2	On-Site Renewable Energy (1-13% by units of 2)	R	7	1	0	6	D	Likely that PV Solar will be required to achieve LEED Gold. Recommend goal of allowing equivalent to 10% of the consumption be incorporated into the design, but with at least 1% in the cost plan. Preliminary estimate is that 10% would equate to	Electrical Engineer	Electrical Engineer	No
EAc3	Enhanced Commissioning	R	2	0	0	2	C	CalGreen commissioning services will be provided for the project.	CxA	CxA	No
EAc4	Enhanced Refrigerant Management	R	2	0	2	0	D	If the system is oversized as is the case with a traditional solution the project might have too much refrigerant. Credit will be held as a maybe until the final calculation is completed.	Mechanical Engineer	Mechanical Engineer	No
EAc5	Measurement and Verification		3	3	0	0	C	Should be targeted, however confirmation of the Measurement and Verification strategy is needed. Consider implementing AECOM EnergyPulse solution	Mechanical Engineer / LEED Consult.	LEED Consultant	No
EAc6	Green Power		2	0	2	0	C	The credit will be pursued if required to achieve higher level of Certification, or if necessary to lock in Gold.	LEED Consultant	LEED Consultant	No
Section Total			35	14	4	17					

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Credit Reference	Project Req Credits Available	Yes	Likely	Unlikely	LEED Submittal	Credit Strategy	Responsibility		Documented & Uploaded		
							Confirmation	Documentation			
Materials and Resources											
MRp1	Storage and Collection of Recyclables	R	Req	0	0	0	0	Confirm recycling storage areas have been incorporated into building.	Architect / Owner	Architect	No
MRc1.1	Building Reuse: 55%; 75%; 95% of existing walls, floors and r		3	0	0	0	0	Not achievable	NA	NA	No
MRc1.2	Building Reuse, Maintain Interior Non-Structural Elements		1	0	0	0	0	Not achievable	NA	NA	No
MRc2	Construction Waste Management: Divert 50%; 75%	R	2	2	0	0	0	Contractor will investigate the possibility of achieving a 95% diversion rate, with minimum of 75%	Contractor	Contractor	No
MRc3	Material Reuse: 5%; 10%		2	0	0	0	0	Not achievable	NA	NA	No
MRc4	Recycled Content: 10%; 20%		2	2	0	0	0	Specify materials to maximize recycled content. Based on the building type, 20% recycled content should relatively easy to achieve. Exemplary Performance should be pursued.	Architect / Contractor	Architect / Contractor	No
MRc5	Regional Materials: 10%; 20%		2	1	1	0	0	Specify materials to maximize regional content. 20% credit may prove difficult given the amount of steel in the building.	Architect / Contractor	Architect / Contractor	No
MRc6	Rapidly Renewable Materials		1	0	0	0	0	While some rapidly renewable materials may be possible, it is unlikely to achieve the % required	Architect / Contractor	Architect / Contractor	No
MRc7	Certified Wood		1	0	0	1	1	Specify at least 50% FSC wood. Investigate if wood basketball courts can be made from FSC certified wood.	Architect / Contractor	Architect / Contractor	No
Section Total			14	5	1	1					

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[White Box]	"C"
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Credit Reference	Project Req Credits	Available Credits	Yes	Likely	Unlikely	LEED Submittal	Credit Strategy	Responsibility		Documented & Uploaded
								Coordination	Documentation	
Indoor Environmental Quality										
IEQp1	Minimum IAQ Performance	Req	1	0	0	D	The project will comply with ASHRAE 62.1 to provide a high quality of comfort and well-being for the occupants.	Mechanical Engineer	Mechanical Engineer	No
IEQp2	Environmental Tobacco Smoke (ETS) Control	Req	1	0	0	D	Designate outside smoking areas at least 25 feet from building entrances and windows.	Architect	Architect	No
IEQc1	Outdoor Air Delivery Monitoring	1	1	0	0	D	CO2 and Outdoor Air monitoring will be provided within DDC system.	Mechanical Engineer	Mechanical Engineer	No
IEQc2	Increased Ventilation	1	1	0	0	D	Due to the local weather this credit can be achieved without a significant negative impact to energy performance.	Mechanical Engineer	Mechanical Engineer	No
IEQc3.1	Construction IAQ Management Plan: During Construction	R	1	1	0	C	Incorporate requirements for IAQ management into specifications. The project will follow SMACNA Guidance during construction.	Contractor	Contractor	No
IEQc3.2	Construction IAQ Management Plan: Before Occupancy	1	1	0	0	C	Incorporate requirements for building flush specifications. If the building flush out cannot be provided due to schedule conflicts, air quality testing will be provided to ensure the credit is achieved.	Contractor	Contractor	No
IEQc4.1	Low-Emitting Materials: Adhesives and Sealants	R	1	1	0	C	Incorporate requirements for VOC criteria into specifications and product data will be collected during construction to ensure compliance.	Architect / Contractor	Contractor	No
IEQc4.2	Low-emitting Materials: Paints and Coatings	R	1	1	0	C	Incorporate requirements for VOC criteria into specifications and product data will be collected during construction to ensure compliance.	Architect / Contractor	Contractor	No
IEQc4.3	Low-Emitting Materials: Flooring Systems	R	1	1	0	C	Incorporate requirements for Carpet and Rug Institute Green Label Plus program and FloorScore certification criteria into specifications and product data will be collected during construction to ensure compliance.	Architect / Contractor	Contractor	No
IEQc4.4	Low-Emitting Materials: Composite Wood and Agrifiber Products	R	1	1	0	C	Incorporate requirements for no added urea-formaldehyde criteria into specifications and product data will be collected during construction to ensure compliance.	Architect / Contractor	Contractor	No
IEQc5	Indoor Chemical & Pollutant Source Control	1	0	1	0	D	Ten foot long entryway systems will be provided inside the building at all regularly used entrances and rooms containing hazardous gases or chemicals will be exhausted.	Architect / Mechanical Engineer	Architect / Mechanical Engineer	No
IEQc6.1	Controllability of Systems: Lighting	1	0	0	1	D	Unlikely given the function of the space	Electrical Engineer	Electrical Engineer	No
IEQc6.2	Controllability of Systems: Thermal Systems	1	0	0	1	D	Unlikely given the function of the space	NA	NA	No
IEQc7.1	Thermal Comfort: Design	R	1	0	1	D	Credit could be tricky given the different occupants. Also, not available with a traditional bowl hvac solution.	Mechanical Engineer	Mechanical Engineer	No
IEQc7.2	Thermal Comfort: Verification	1	1	0	0	C	Provide an occupant survey 6-18 months after occupancy. AECOM has a standard survey and Corrective Action Plan.	LEED Consultant	LEED Consultant	No
IEQc8.1	Daylight & Views: Daylight 75% of spaces	1	0	0	0	D	Not achievable due to extent of internal space w/o daylight	Architect / Daylight Modeler	Architect / Daylight Modeler	No
IEQc8.2	Daylight & Views: Views for 90% of spaces	1	0	0	0	D	Not Achievable due to extent of internal space w/o daylight	Architect	Architect	No
Section Total			15	8	2	2				

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Credit Reference	Project Req Credits	Available Credits	Yes	Likely	Unlikely	LEED Submittal	Credit Strategy	Responsibility		Documented & Uploaded
								Coordination	Documentation	
Innovation in Design										
IDc1.1		1	1	0	0	D	Urban Farming / 100% Underground Parking / TBC	LEED Consultant	LEED Consultant	No
IDc1.2	Innovation in Design: TBD	1	1	0	0	D	Develop Green Education Program.	LEED Consultant	LEED Consultant	No
IDc1.3	Innovation in Design: Green Education	1	1	0	0	D	Transportation Management Plan is being developed.	LEED Consultant	LEED Consultant	No
IDc1.4	Innovation in Design: SSc4.1	1	1	0	0	D	Provide an Integrated Pest Management.	LEED Consultant	LEED Consultant	No
IDc1.5	Innovation in Design: Integrated Pest Management Plan	1	1	0	0	D	Provide a Green Cleaning Program.	LEED Consultant	LEED Consultant	No
IDc2	Innovation in Design: Green Cleaning	1	1	0	0	D	Multiple LEED APs on Design Team.	LEED Consultant	LEED Consultant	No
	LEED Accredited Professional	R	1	1	0	0	C			No
Section Total			6	6	0	0				
Regional Priority										
RPc1.1	Regional Priority: EAc4.1	1	1	0	0	D	{Possible RP credits based on 95814 zip code: EAc2 1%, IEQc8.1, SSc4.1 6pts, SSc7.1, WEc2, WEc3 40%}. SSc4.1 achieved	LEED Consultant	LEED Consultant	No
RPc1.2	Regional Priority: SSc7.1	1	1	0	0	D	SSc7.1 can be achieved	LEED Consultant	LEED Consultant	No
RPc1.3	Regional Priority: EAc2.1	1	1	0	0	D	EAc2.1 is likely to require greater than 1% in order to achieve gold, however assume at least 1% is achieved.	LEED Consultant	LEED Consultant	No
RPc1.4	Regional Priority: WEc2 or WEc3 @ 40%)	1	0	0	1	D	Regional Priority credit is not feasible unless the project can use grey water or rain water to flush toilets.	LEED Consultant	LEED Consultant	No
Section Total			4	3	0	1				