	OCP Ready v2 for Hyperscale Data Center Site Assessment	PHX04		
	Self Assessment Status:	COMPLETE-MEETS REQUIREMENTS		
	Data Center Location Name	PHX04		
	Data Center Location Address	S Price Rd & W Innovation St,Chandler, AZ 85286		
	Site Development Category:	1. Wholesale Data Center Fully Leased	04/21/2024	
	Site Description: IT Technical Space (White Space) Area	139,500 sq ft		
	Site Description: Critical IT Power	Critical IT Power		
	Site Description: Network Provider Availability	Zayo, Verizon (10 carriers within 1 mile of site)		
	Site Description: Facility Features	100% of load matched with renewable energy sources, Cooling technology leveraging up to 85% less water and 80% less power than traditional systems		
	Site Description: Other Services	24x7 Security and Acces, Remote Hands, Cabling, Telecom Service		
	Date Original Assessment is Completed	08/29/2024		
	Re-Assessment Date:			
Ref:	**REQUIREMENTS - Attribute (Must have an Optimum or Acceptable result)**	**Parameter**	**Result**	**Notes**
1	**CAMPUS SITE ACCESS & LOGISTICS**			
1.0	**SITE ACCESS**			
1.0-A	Vehicular Access inc. truck circulation	1. Roadway access to loading dock to allow for an Interstate Semitrailer 65' Wheelbase (WB-65)	Optimum	
1.0-B	Building Access	1. Covered loading dock with leveler	Optimum	
1.0-C	Delivery pathway, Loading dock to storage room	1. ≥ 2.75m (108in) H x ≥ 1.6m (63in) W unobstructed access and threshold free	Optimum	
1.0-D	Delivery pathway, Goods in to IT Technical Space	1. ≥ 2.75m (108in) H x ≥ 1.6m (63in) W unobstructed access and threshold free	Optimum	
1.0-E	Corridor floor rolling load	1. ≥680 kg (1500 lb/ft2) (6.67 kN) slab on grade	Optimum	
1.0-F	Unboxing/pre-staging/storage area floor uniform load	1. ≥1221 kg/m2 (250 lb/ft2) (11.97 kN/m2) slab on grade	Optimum	
1.0-G	Unboxing/pre-staging/storage area floor concentrated load	1. ≥680 kg (1500 lb/ft2) (6.67 kN) slab on grade	Optimum	
1.1	**ACCESS CONTROLS & MONITORING**			
1.1-A	Site perimeter fence	1. ≥2.43m (96in) H with perimeter intrusion detection system (PIDS)	Optimum	
1.1-B	Site security lighting	1. Site lighting with backup power	Optimum	
1.1-C	Main Security Checkpoint (or check in location)	1. Staffed 24/7	Optimum	
1.1-D	Levels of security to gain access to IT Technical Space	1. >3 (site perimeter, building perimeter, secure corridor and IT Technical Space)	Optimum	
1.1-E	Video surveillance data record archive	1. >30 days	Optimum	90 day requirement
1.1-F	Visitor access requirements	1. Pre-approved with valid government issued ID and escorted	Optimum	
1.1-G	Entrance and exit door monitoring	1. All entrance and exit doors are electronically monitored and recorded	Optimum	
1.2	**RAMPS**			
1.2-A	Gradient	1. Not Applicable - No Ramps Required	Optimum	
1.2-B	Length	1. Not Applicable - No Ramps Required		
1.2-C	Width	1. Not Applicable - No Ramps Required	Optimum	
1.2-D	Landing area	1. Not Applicable - No Ramps Required	Optimum	
1.2-E	Railings	1. Not Applicable - No Railings Required	Optimum	
1.3	**FREIGHT LIFTS / ELEVATORS**			
1.3-A	Weight loading	1. ≥3000kg (6600lbs)	Optimum	
1.3-B	Door height	1. ≥2.75m (108in) Lift /Elevator door opening height (internal cabin)	Optimum	
1.3-C	Width	1. ≥1.8m (71in) Unobstructed door opening width	Optimum	
1.3-D	Depth	2. ≥1.5m (60in) Unobstructed cabin depth	Acceptable	Other checklist reads 137 inches for 1. Requirement
2	**IT TECHNICAL SPACE (WHITE SPACE)**			
2.0	**STRUCTURAL**			
2.0-A	Floor rolling load	1. ≥680kg (1500lb) (6.67kN) slab on grade	Optimum	
2.0-B	Floor uniform load	1. ≥1221 kg/m2 (250 lb/ft2) (11.97 kN/m2) slab on grade	Optimum	
2.0-C	Floor concentrated load	1. ≥680kg (1500lb) (6.67kN) slab on grade	Optimum	
2.0-D	Finished floor to ceiling height	1. ≥4.5m (178in) clear space (no obstructions)	Optimum	
2.0-E	Access floor	1. Not Applicable - No Access floor	Optimum	
2.1	**ELECTRICAL**			

2.1-A	Class Rating	1. 3 (e.g. Bicsi F3 or UTI Tier 3 Notes Required)	Optimum	Block redundant 6+1 with standby generator and UPS system. Static transfer switch powering PDU;s (primary and redundant) to feed N + N within customer space
2.1-B	Row level diverse power feeds	1. 2N (A+B)	Optimum	
2.1-C	Nominal circuit capacity	1. 1ϕ and 3ϕ circuits available based on customer requirements (e.g. 1ϕ 230-240V, 3ϕ 400V-415V Notes Required)	Optimum	Circuits are determined and designed based on customer requirements. We ensure upstream power supply meets requirements within area of customer zones.
2.1-D	Circuit frequency	1. 47-63 Hz	Optimum	
2.1-E	Power receptacle / WIP Type	1. All power receptacle types supported	Optimum	
2.1-F	Circuit receptacle location	1. Overhead busbar	Optimum	
2.1-G	Upstream UPS options	1. N+N UPS feed	Optimum	
2.1-H	Rack-based batteries permitted	1. Allowed	Optimum	
2.1-I	Generator load acceptance time	2. <35 seconds	Acceptable	
2.2	**COOLING**			
2.2-A	Class Rating	1. 3 (e.g. Bicsi F3 or UTI Tier 3 Notes Required)	Optimum	12+2 Chiller redundancy utilizing a cooling loop with TES and dual power supply Delta Cube Arrays.
2.2-B	Supplemental Advanced Cooling	1. Not Applicable	Optimum	
2.2-C	Rack airflow direction	1. Front to Back	Optimum	
2.2-D	Air containment methods	1. Hot aisle containment	Optimum	
2.2-E	Maximum rack density	1. ≥12kW	Optimum	
2.2-F	Minimum cold aisle width	1. ≥1400mm (56in)	Optimum	
2.2-G	Minimum free width cold aisle (Inside cage)	1.≥1400mm (56in)	Optimum	
2.2-H	Minimum hot aisle width	1. ≥1200mm (48in)	Optimum	
2.2-I	Inlet air conditions	1. ASHRAE Recommended	Optimum	
2.2-J	Air quality	1. MERV 8 filters on outside air	Optimum	
2.2-K	Temperature rise	1. ≥12 Deg C DeltaT	Optimum	
2.2-L	Cabinet blanking of open space	1. Mandatory	Optimum	
3	**TELECOMMUNICATIONS**			
3.1	**ACCESS PROVIDERS AND OUTSIDE PLANT (OSP) Fiber**			
3.1-A	OSP fiber to data center campus	1. 3 diverse OSP entrances to the data center campus	Optimum	
3.1-B	Carriers and backbone providers	1. Carrier neutral with expansion capability (Notes Required)	Optimum	Has designated future racks and slots and space for expanded services in existing MMRs
3.2	**MEET-ME ROOMS (MMRS)**			
3.2-A	Number and Location	1. N+N Isolated MMRs with dedicated OSP fiber entrance from service providers	Optimum	
3.3	**MMR CABLING**			
3.3-A	MMR to IT Technical Space Pathways	1. 2 dedicated diverse pathways from 2 MMRs	Optimum	
3.3-B	MMR to IT Technical Space Conduit Pathway sizing	1. ≥100mm (4in) conduit pathways	Optimum	
3.4	**MMR ELECTRICAL**			
3.4-A	Class Rating	1. 3 (e.g. Bicsi F3 or UTI Tier 3 Notes Required)	Optimum	Redundant systems and isolated cooling and power
3.4-B	Row level diverse power feeds	1. 2N (A+B)	Optimum	
3.4-C	Nominal circuit capacity	1. 1ϕ and 3ϕ circuits available based on customer requirements (e.g. 1ϕ 230-240V, 3ϕ 400V-415V Notes Required)	Optimum	Circuits are determined and designed based on customer requirements. We ensure upstream power supply meets requirements within area of customer zones.
3.4-D	Circuit frequency	1. 47-63 Hz	Optimum	
3.4-E	Upstream UPS options	1. UPS systems derived from an isolated house lineup	Optimum	
3.4-F	UPS Redundancy	1. N+1	Optimum	
3.4-G	Generator load acceptance time	2. <35 seconds	Acceptable	
3.5	**MMR COOLING**			
3.5-A	MMR cooling redundancy per room	1. N+N	Optimum	
3.5-B	MMR cooling system type	1. DX	Optimum	
3.5-C	MMR cooling isolation	1. Isolated from IT technical space cooling system	Optimum	
3.6	**MMR ACCESS CONTROLS**			
3.6-A	Customer access to MMR(s)	1. Controlled by the colocation data center and escorted	Optimum	
3.6-B	Service Provider access to MMR(s)	1. Controlled by the colocation data center and escorted	Optimum	
3.6-C	Biometric readers, badge readers, and video surveillance installed for the MMR(s)?	1. Yes	Optimum	

4	**SERVICE**			
4.1	**OPERATIONS AND SPARE PARTS**			
4.1-A	Critical spares program	1. On hand spares available on campus	**Optimum**	
4.1-B	Critical Response SLA	1. Yes	**Optimum**	
4.1-C	Remote hands program	1. Yes	**Optimum**	
4.1-D	Office Space	1. Dedicated space available for fitout	**Optimum**	
5	**EFFICIENCY**			
5.0-A	Site Operations Standards	1. OCP Critical Facility Operations Guidelines	**Optimum**	Aligned Data Centers operations requirements and guidelines are in line with OCP guidelines
5.0-B	Operational Sourcing Standard	1. Hybrid	**Optimum**	
5.0-C	Work Note Communication and Coordination	1. Yes (e.g. Dedicated portal, Teams, Sharepoint)	**Optimum**	
5.0-D	Site PUE Monitoring	1. Continuously monitored	**Optimum**	Monthly assessment with billing calculations, working on live monitoring.
5.0-E	Site Design PUE at Full Load	1. <1.3 @ 80% Max Utilization	**Optimum**	
5.0-F	Site Annualized PUE Current Achievement	1. Data Center in operation for <1 year	**Optimum**	
5.0-G	Site WUE Monitoring	1. Not applicable (e.g. zero water requirement)	**Optimum**	For sites with water cooling, it is calculated monthly with billing.
5.0-H	Site CUE Monitoring	1. Not applicable (e.g. zero water requirement)	**Optimum**	Monthly assessment with billing calculations, working on live monitoring.
6	**OPENNESS**			
6.0-A	PUE Published	2. Other (Notes Required)	**Acceptable**	Monthly assessment with billing calculations, working on live monitoring.
6.0-B	Facility Design Drawings & Files	1. Available to view upon request	**Optimum**	
6.0-C	BMS / PMS Customer Access	1. External access provided through a MQTT Broker or other air gapped connection for telemetry purposes. (e.g. power monitoring)	**Optimum**	
7	**CERTIFICATIONS**			
7.0-A	ISO/IEC 27001	1. Certification achieved	**Optimum**	
7.0-B	SOC 1 Type II	1. Certification achieved	**Optimum**	
7.0-C	SOC 2 Type II	1. Certification achieved	**Optimum**	
7.0-D	PCI-DSS	1. Certification achieved	**Optimum**	
7.0-E	Sustainability Assessment	1. Green Globes Certification achieved	**Optimum**	3 Green Globes
7.0-F	Data Center Certification	1. UTI Certification in process	**Optimum**	
	Site Assessment Version - v1.0 rev1.14			