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AMON TECHNOLOGIES LLC

DATA CENTER CONSULTANCY SERVICES

DAKESSIAN CONSULTING / DATA CENTER CONSULTANCY SERVICES

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ABOUT US

- ▶ Amon Technologies is an LLC Registered In Jordan
- ▶ Our Trade Name is Dakessian Consulting
- ▶ JD30k Capitalization
- ▶ Data Center Design & Systems Consultants
- ▶ International Presence (Middle East, USA, EU)
- ▶ 40+ Years Of Experience
- ▶ Details on www.dakessian-cnslt.com

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OUR DC DESIGN SERVICES

- ▶ Site Selection, Design & Specification
- ▶ Cooling & Green Technology Selection
- ▶ Implementation Management
- ▶ Uptime Certification TCDD , TCCF & TCOS
- ▶ Disaster Recovery & Business Continuity Planning
- ▶ Online Services

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THE 6 STAGE METHODOLOGY

- ▶ Assessment
- ▶ Location
- ▶ Design
- ▶ Specification
- ▶ Implementation
- ▶ Migration



STAGE 1 – ASSESSMENT

- ▶ Environment
- ▶ Electric Power (Utility, Green, Sustainable)
- ▶ Data Networks
- ▶ Economic Incentives
- ▶ Access & Transportation
- ▶ Permits, Construction & Labour Costs
- ▶ Go Live Date

STAGE 2 – SITE SELECTION

- ▶ Risk Levels Matrix
- ▶ Disaster Types & Causes
- ▶ Physical Distance Constraints
- ▶ Ideal Geographic Zone

STAGE 2 – RISK LEVELS

RISK LEVEL MATRIX

Likelihood	Impact		
	Low (10)	Medium (50)	High(100)
High (1.0)	Low 10 X 1.0 = 10	Medium 50 X 1.0 = 50	High 100 X 1.0 = 100
Medium (0.5)	Low 10 X 0.5 = 5	Medium 50 X 0.5 = 25	Medium 100 X 0.5 = 50
Low (0.1)	Low 10 X 0.1 = 1	Low 50 X 0.1 = 5	Low 100 X 0.1 = 10

STAGE 2 – DISASTER TYPES / CAUSES

DISASTER TYPE CAUSES

Disaster Type Scenario	Natural Causes	Man Made Causes	Risk Level
Infrastructure	Yes	Yes	High
Financial	No	Yes	Medium
Human Resources	Yes	Yes	High
Political & Regulatory	No	Yes	Medium
Products & Services	No	Yes	Medium
Information Technology	No	Yes	High

STAGE 2 – PHYSICAL DISTANCE CONSTRAINTS

Primary Data Center Location / Distance vs Requirements						
	Distance From DR Site					
	0 - 10 km	10 - 20 km	20 - 30 km	30 - 40 km	40 - 50 km	50 - 60 km
Seismic Zone						
CAPEX						
OPEX						
Data Comms Services						
Accessibility						
Environment						
Third Party Services						
Expansion Capacity						
Network Latency						
Border Zones						
South to South East						
South to Aqaba						
West to Jordan Valley						

STAGE 2 – GEOGRAPHIC ZONE SELECTION



STAGE 3 – CONCEPTUAL DESIGN

- ▶ Uptime Institute Tier Classification
- ▶ Functional Layouts
- ▶ Cooling Technology Selection
- ▶ Site Layout & Floor Plan
- ▶ Bill Of Quantities & Estimated Costs
- ▶ High Level Road Map

STAGE 3 – UPTIME INSTITUTE CLASSIFICATION

UPTIME INSTITUTE DATA CENTER TIER CLASSIFICATION

	Tier I	Tier II	Tier III	Tier IV
Active Capacity Components To Support IT Loads	N	N+1	N+1	N After Any Failure
Distribution Paths	1	1	1 Active 1 Alternate	2 Simultaneously Active
Concurrently Maintainable	No	No	Yes	Yes
Fault Tolerance	No	No	No	Yes
Compartmentalization	No	No	No	Yes
Continuous Cooling	No	No	No	Yes

STAGE 3 – HIGH LEVEL ROADMAPS

	Q1 2020			Q2 2020			Q3 2020			Q4 2020		
	M 1	M 2	M 3	M 4	M 5	M 6	M 7	M 8	M 9	M 10	M 11	M 12
Assessment												
Conceptual Design												
Site Selection												
Adopt Conceptual Design												
Secure Budgets												
Architectural Design												
Prepare Specifications												
Prequalify Bidders												
Issue RFP												
Select Supplier												
Implement Primary DC												
Implement DR DC												
Upgrade WAN												
Migrate To DR DC												
Migrate To Primary DC												
Formulate DR & BC Plan												
Live Operation - DR DC												
Live Operation - Primary DC												

STAGE 4 – TENDER & RFP

- ▶ Technical Specifications
- ▶ Functional Specifications
- ▶ Terms & Conditions
- ▶ Evaluation Criteria
- ▶ Proposal Evaluation
- ▶ Negotiation & Contracts

STAGE 5 – IMPLEMENTATION MANAGEMENT

- ▶ Project Charter
- ▶ Project Plan
- ▶ Steering Committee
- ▶ Change Management
- ▶ Contractor Approvals
- ▶ Acceptance Criteria

STAGE 6 – DC RACK MIGRATION

- ▶ New DC Network Design
- ▶ Current IT Asset Inventory
- ▶ Migration Plan & Risk Control
- ▶ Insurance & Transportation
- ▶ Installation
- ▶ Testing & Commissioning

AREAS THAT NEED ATTENTION

- ▶ Site Selection
- ▶ Cooling System Design
- ▶ Technical & Functional Specs
- ▶ TCDD , TCCF & TCOS Certification
- ▶ Implementation Supervision
- ▶ Migration Planning
- ▶ Avoid Contractor Dominance



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