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Filer:	Jerry Salamy
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San José City Data Center
(19-SPPE-04)

Informal Data Response Set 1A
(Project Objectives)

Submitted to
California Energy Commission

Prepared by
Microsoft Corporation

with technical assistance from

JACOBS

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Contents

Introduction

Attached are Microsoft Corporation's (Microsoft or the Applicant) responses to the California Energy Commission (CEC) Informal Data Request, Set 1A regarding the San José City Data Center (SJC02) (19-SPPE-04) Small Power Plant Exemption (SPPE).

Response to Staff Project Objectives Informal Data Request, Set 1A

2) What are the project objectives, including the primary goal and project purpose?

Response: The SJC02's project objectives are as follows:

- Meet the continuing need for a data center to support the San José region's growing business and work force population as well as its growth as a center of innovation consistent with San José's planned land use vision.
- Construct and operate a data center that maximizes the use of the property to house computer servers, supporting equipment, and associated administrative office uses in an environmentally controlled structure with redundant subsystems (cooling, power, network links, storage, fire suppression, etc.).
- Locate the data center on property long-planned for industrial uses that is in proximity to existing circulation and utility infrastructure, a reliable large power source, and emergency response access, and on a site capable of being protected, to the maximum extent feasible, from security threats, natural disasters, and similar events.
- Design the proposed data center such that it can be provided with operational electric power via an electric 115/230-kilovolt (kV) substation, and efficiently extend, connect to or otherwise install other utility infrastructure to adequately serve the project, including water, storm drainage, sanitary sewer, electric, natural gas, and telecommunications, as well as new roadway improvements.
- Ensure the data center achieves reduced access latency (defined as the time it takes to access data across a network).
- Incorporate reliable, commercially available, and feasible backup generators to ensure uninterrupted power during utility outages, interruptions, or failures, with back-up generation deployed in redundant configurations to achieve a 99.999 percent reliability factor.
- Incorporate use of renewable diesel fuels as primary fuel for backup generators while maintaining flexibility for the applicant to elect to use ultra-low sulfur diesel (ULSD) #2 fuels as a secondary fuel source in the event of supply challenges or disruption in obtaining renewable diesel.
- Incorporate, as feasible, environmentally sustainable features into the project, such as bird-friendly building design components and the creation of an environmental buffer zone along Coyote Creek.