APPLICATION FOR PREAPPROVAL

SPECIAL SEISMIC CERTIFICATION OF EQUIPMENT AND COMPONENTS

For Office Use Only

APPLICATION NO.

OSP – 0039-10

Check whether application is: NEW [X] RENEWAL [ ]

1.0

NEC Corporation of America — *Manufacturer*

J. R. "Randy" Gwinnett — *Manufacturer's Technical Representative*

6535 North State Highway 161, Irving, TX 75039 — *Mailing Address*

214-262-2501 — *Telephone*

Randy.Gwinnett@necam.com — *E-mail Address*

2.0

UNIVERGE SV8500 — *Product Name*

Voice Communications Server — *Product Type*

SEE ATTACHMENT 1

Product model No (List all unique product identification numbers and/or serial numbers)

General Description: Voice Communications Server providing telecommunications services via Voice over IP (VoIP) and/or TDM (Time Division Multiplexing) connections. The UNIVERGE SV8500 is used for Enterprise class telecommunications deployments in various business, healthcare, hospitality, educational and other facilities or operations.
The SV8500 is a modular system mounted in a seismic qualified 19" rack. OSHPD approval of the Special Seismic Certification is contingent on use of a base-mounted Chatsworth 13855-703 rack.

3.0

EQUIPMENT ANCHORAGE AND SEISMIC ENGINEERING — *Applicant Company Name*

JONATHAN ROBERSON, S.E. — *Contact Person*

5877 Pine Ave, Suite 210, Chino Hills, CA. 91709 — *Mailing Address*

406-541-3273 — *Telephone*

jon@easeco.com — *E-mail Address*

I hereby agree to reimburse the Office of Statewide Health Planning and Development for the actual costs incurred by the department for review.

Signature of Applicant

February 12, 2010 — *Date*

Senior Engineer — *Title*

EQUIPMENT ANCHORAGE AND SEISMIC ENGINEERING — *Company Name*

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Registered Design Professional Preparing the Report

4.0 ***EQUIPMENT ANCHORAGE AND SEISMIC ENGINEERING***
Company Name

JONATHAN ROBERSON, S.E. — *Contact Name*
S4197 — *California License Number*

5877 Pine Ave, Suite 210, Chino Hills, CA. 91709 — *Mailing Address*

406-541-3273 — *Telephone*
jon@easeco.com — *E-mail Address*

California Licensed Structural Engineer Review and Acceptance of the Report

5.0 ***EQUIPMENT ANCHORAGE AND SEISMIC ENGINEERING***
Company Name

JONATHAN ROBERSON, S.E. — *Contact Name*
S4197 — *California License Number*

5877 Pine Ave, Suite 210, Chino Hills, CA. 91709 — *Mailing Address*

406-541-3273 — *Telephone*
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Anchorage Pre-Approval

6.0

☐ *Anchorage is pre-approved under OPA-*
(Separate application for anchorage pre-approval is required)

☒ Anchorage is not Pre-approved

Certification Method

70. ☒ *Testing in accordance with:* ☒ *ICC-ES AC-156* ☐ *Other (Please Specify):*

☐ *Analysis*

☐ *Experience data*

☐ *Combination of Testing, Analysis, and/or Experience Data (Please Specify):*

Testing Laboratory (if applicable)

8.0 *Environmental Testing Laboratory, Inc.* — *Company Name*
BRADY RICHARD — *Contact Name*

11034 Indian Trail, Dallas, TX 75229-3513 — *Mailing Address*

(972) 247-9657 — *Telephone*
brady@etldallas.com — E-mail:

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Approval Parameters

9.0

Design in accordance with ASCE 7-05 Chapter 13: ☒ Yes ☐ No

Design Basis of Equipment or Components (F_p/W_p) = 1.39

S_{DS} (Spectral response acceleration at short period) =1.93

a_p (In-structure equipment or component amplification factor) = 1.0

R_p (Equipment or component response modification factor) = 2.5

I_p (Importance factor) = 1.5

z/h (Height factor ratio)=1.0

Equipment or Component fundamental frequency(s) =10.5 Hz Front | 9.2 Hz Side | 11.2 Hz Vertical

Building period limits (if any) = NO LIMIT

Overall dimensions and weight (or range thereof) = SEE ATTACHMENT 1

Equipment or Components @ grade designed in accordance with ASCE 7-05 Chapter 15: ☐ Yes ☒ No

Design Basis of Equipment or Components (V/W) =

S_{DS} (Spectral response acceleration at short period) =

S_1 (Spectral response acceleration at 1 second period) =

R (Response modification coefficient)=1.0

Ω_0 (System overstrength factor) =1.0

C_d (Deflection amplification factor) =1.0

I_p (Importance factor) =1.5

Height to Center of Gravity above base =

Equipment or Component fundamental period(s) = Sec

Overall dimensions and weight (or range thereof) =

Tank(s) designed in accordance with ASME BPVC, 2007: ☐ Yes ☒ No

10.0 *List of attachments supporting the special seismic certification of equipment or components:*

☒ *Test Report* ☐ *Drawings* ☒ *Manufacturer's Catalog*

☐ *Calculations* ☐ *Others (Please Specify:):*

11.0 *OSHPD Approval* *(For Office Use Only)*

Signature & Date	3/2/10
Chris Tokas, SHFR	**December 31, 2013**
Name & Title	*Approval Expiration Date*
Condition of Approval (if any):	S_{DS} (g) = **1.93** z/h = **1.0**
	Special Seismic Certification Valid Up to

APPLICATION FOR PREAPPROVAL

SPECIAL SEISMIC CERTIFICATION OF EQUIPMENT AND COMPONENTS

ATTACHMENT 1

The NEC Corporation of America Univerge SV8500 is a modular system mounted in a seismically qualified 19" rack manufactured by Chatsworth. The system components are defined in the table below:

Description	Model No.	Width (in.)	Depth (in.)	Height (in.)	Weight (lb.)
Mounting Rack	Chatsworth 13855-703 Seismic 19INX7FTH #12 BK	19	13	84	180
UNIVERGE SV8500 Chassis	SN8154 BCSEA-A	19	19	5.2	33.5
UNIVERGE SV8500 Gateway Chassis	SN8153 PIREE-A	19	20.88	14	52.75
UNIVERGE SV8500 Fan Unit	SN1747 FANUY-A	19	16.12	1.81	11.5
UNIVERGE SV8500 Power Rack	GPP1U RACK AA	19	14.88	1.55	15.75

Note: OSHPD approval of the Special Seismic Certification is contingent on the use of a base-mounted Chatsworth 13855-703 rack.